

Figure 1.

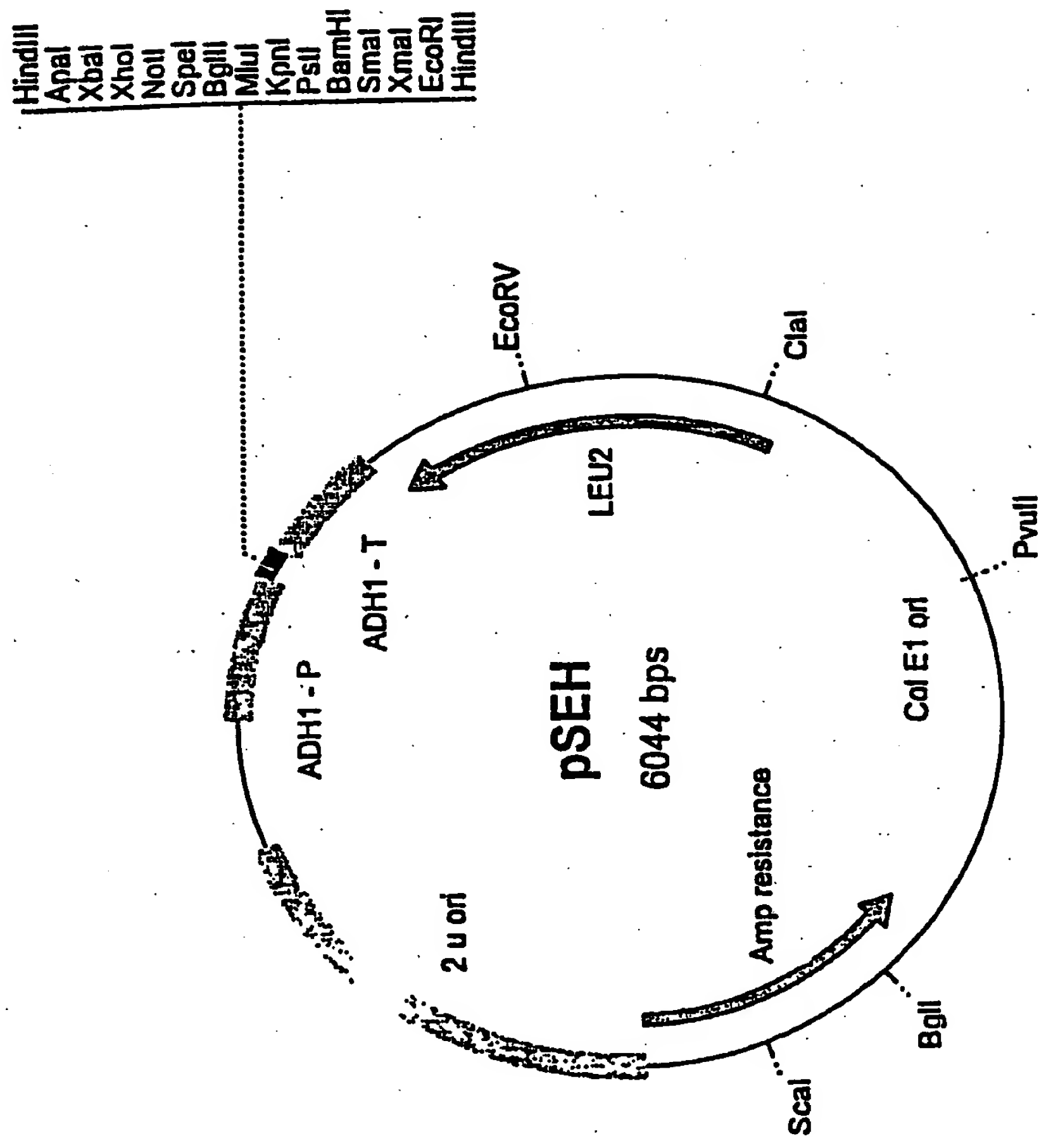


Figure 2.

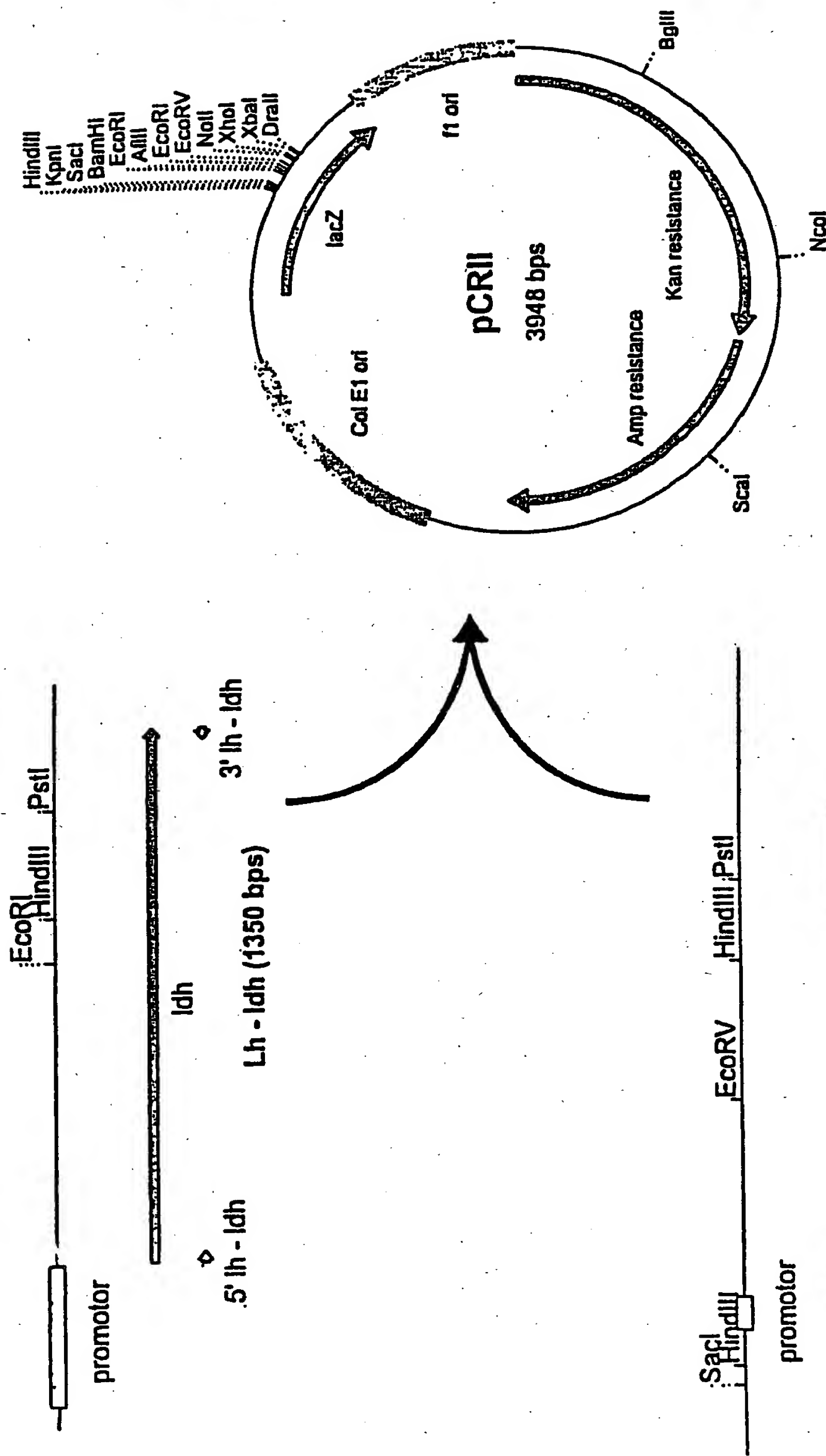


Figure 3.



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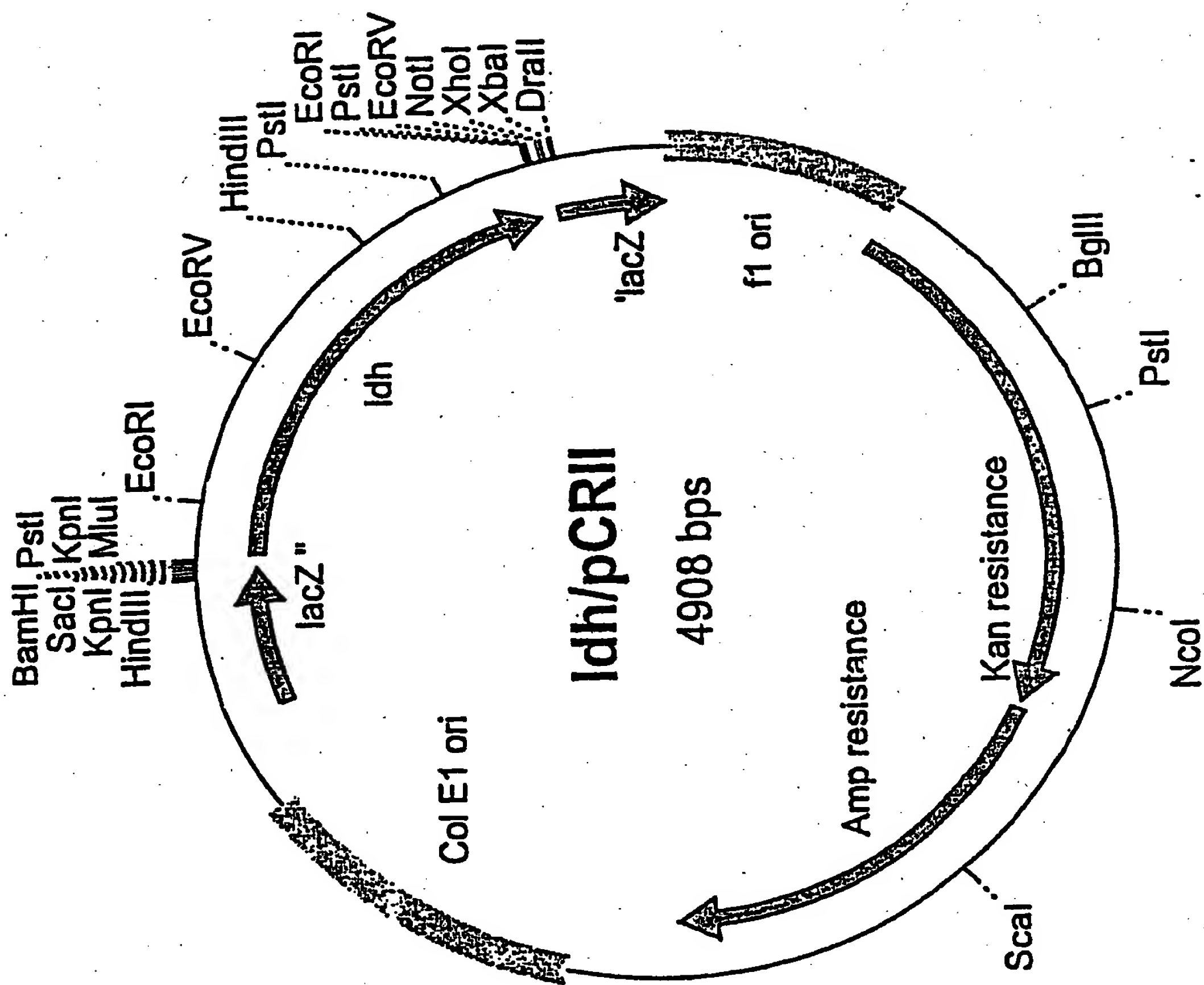


Figure 4.

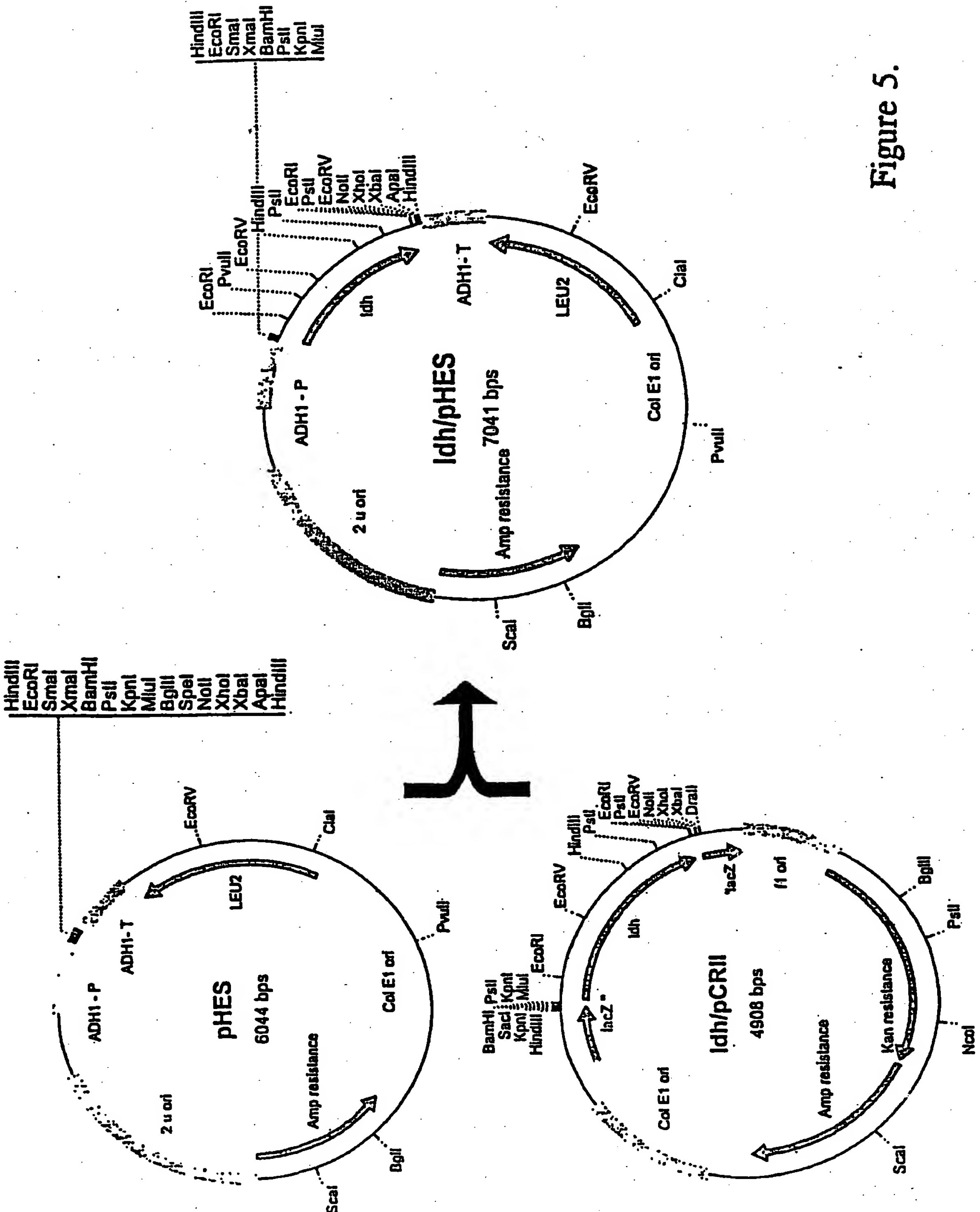
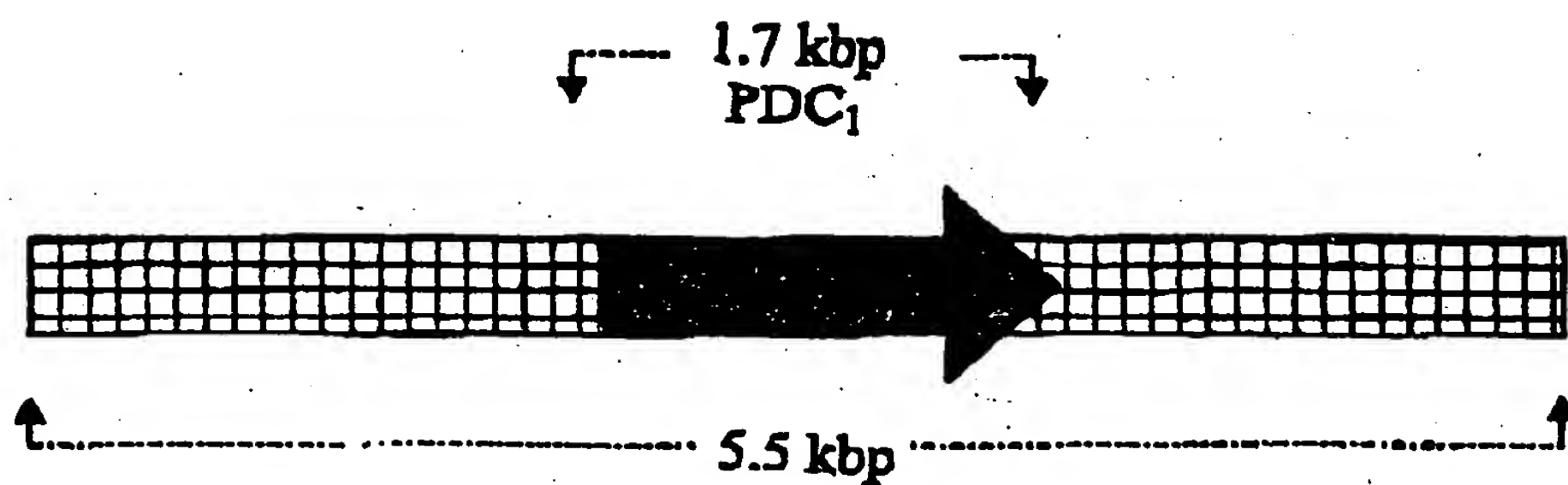


Figure 5.



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Figure 6b.





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Figure 6c.

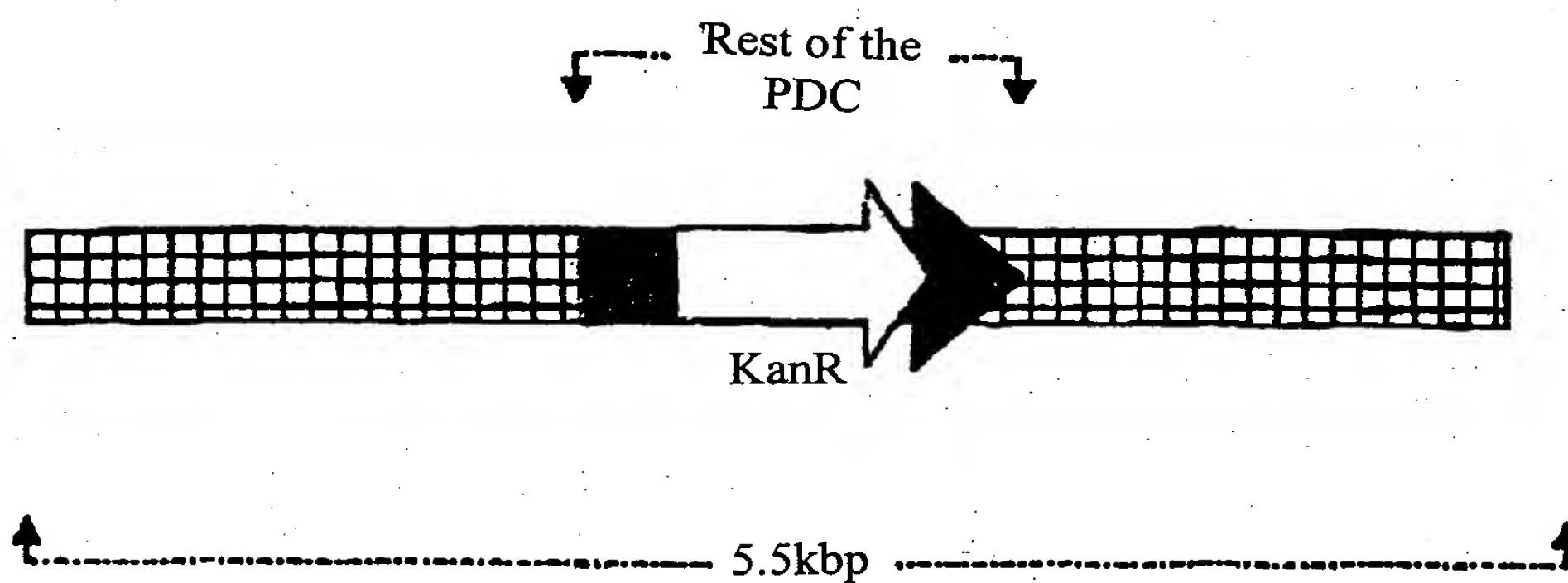


Figure 6d.

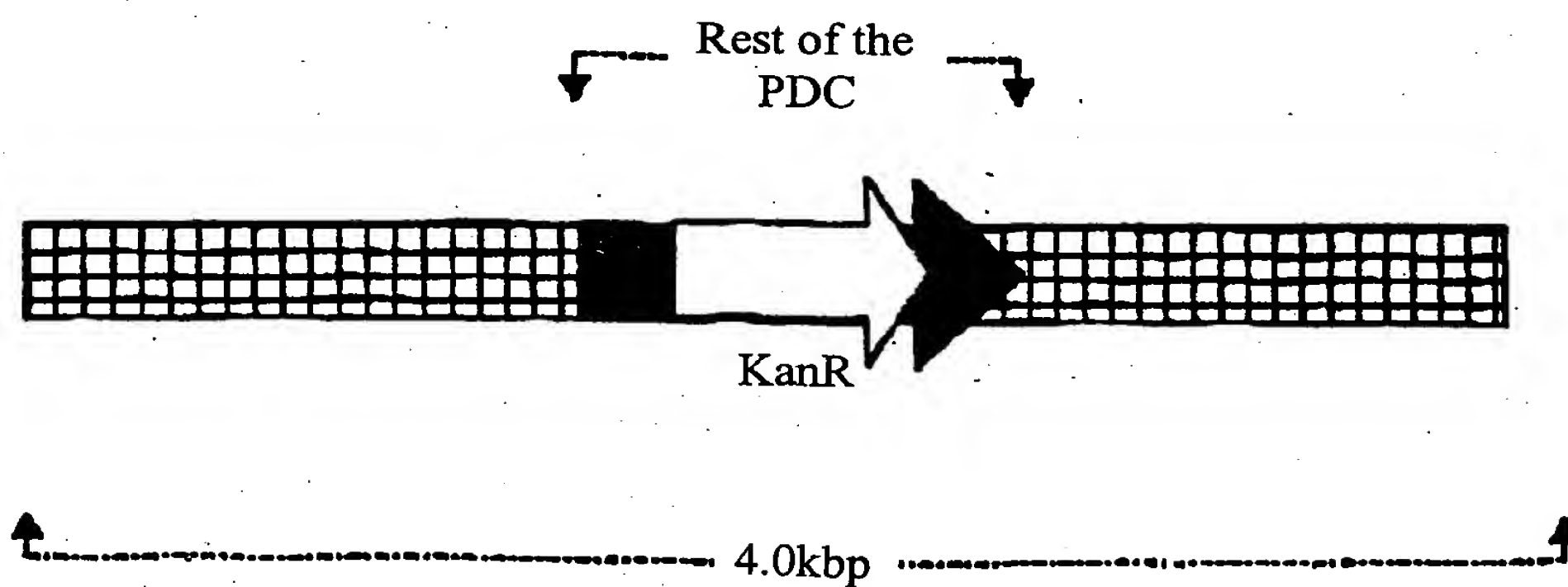




Figure 6e.

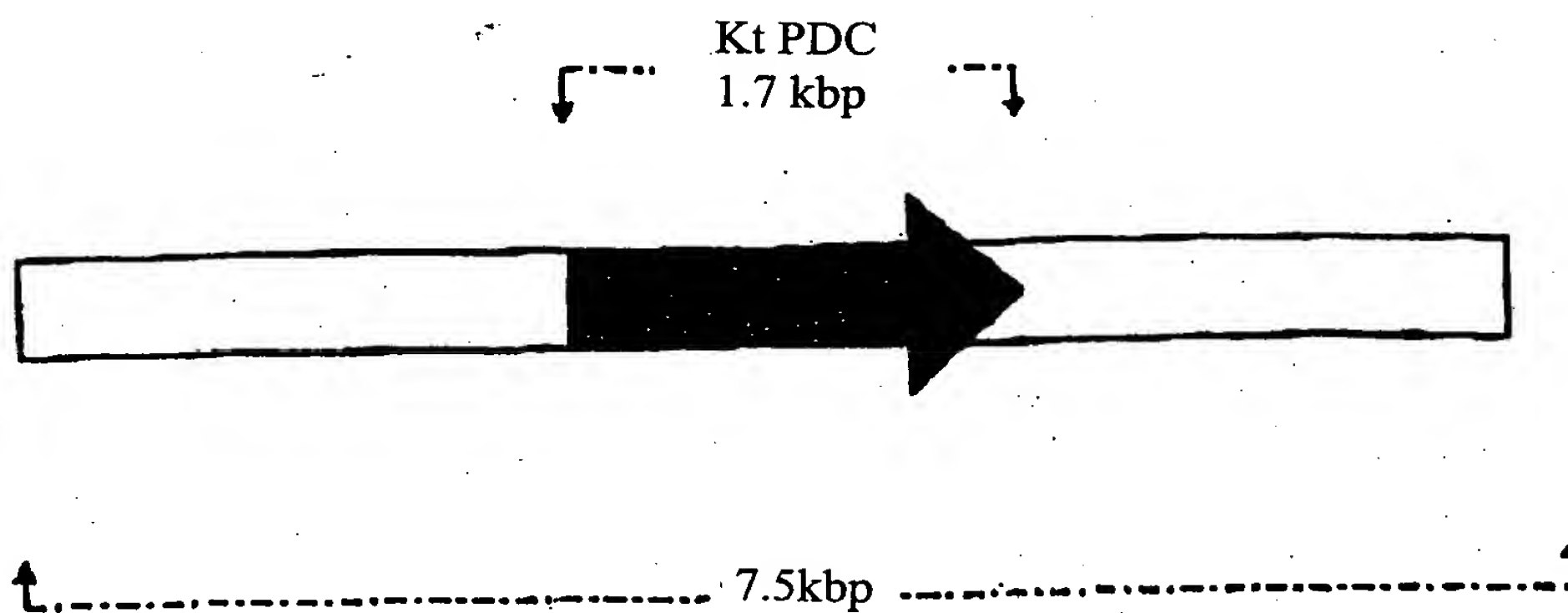
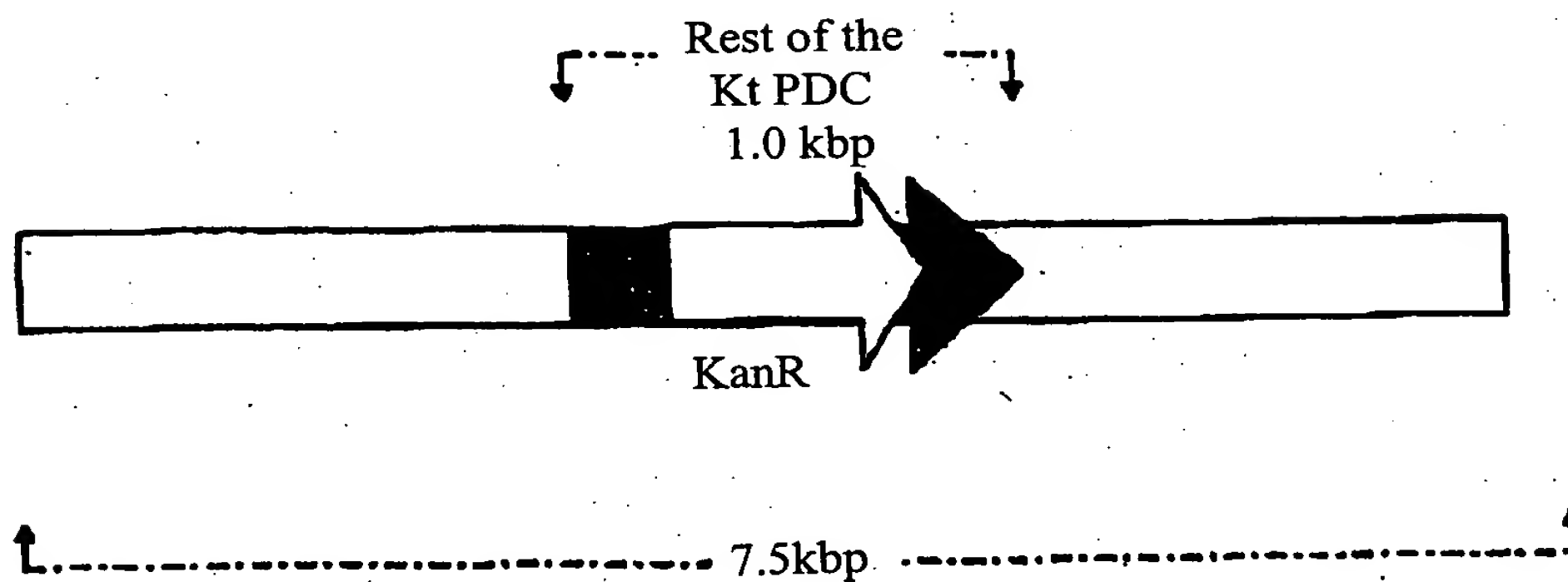


Figure 6f.





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Figure 7.

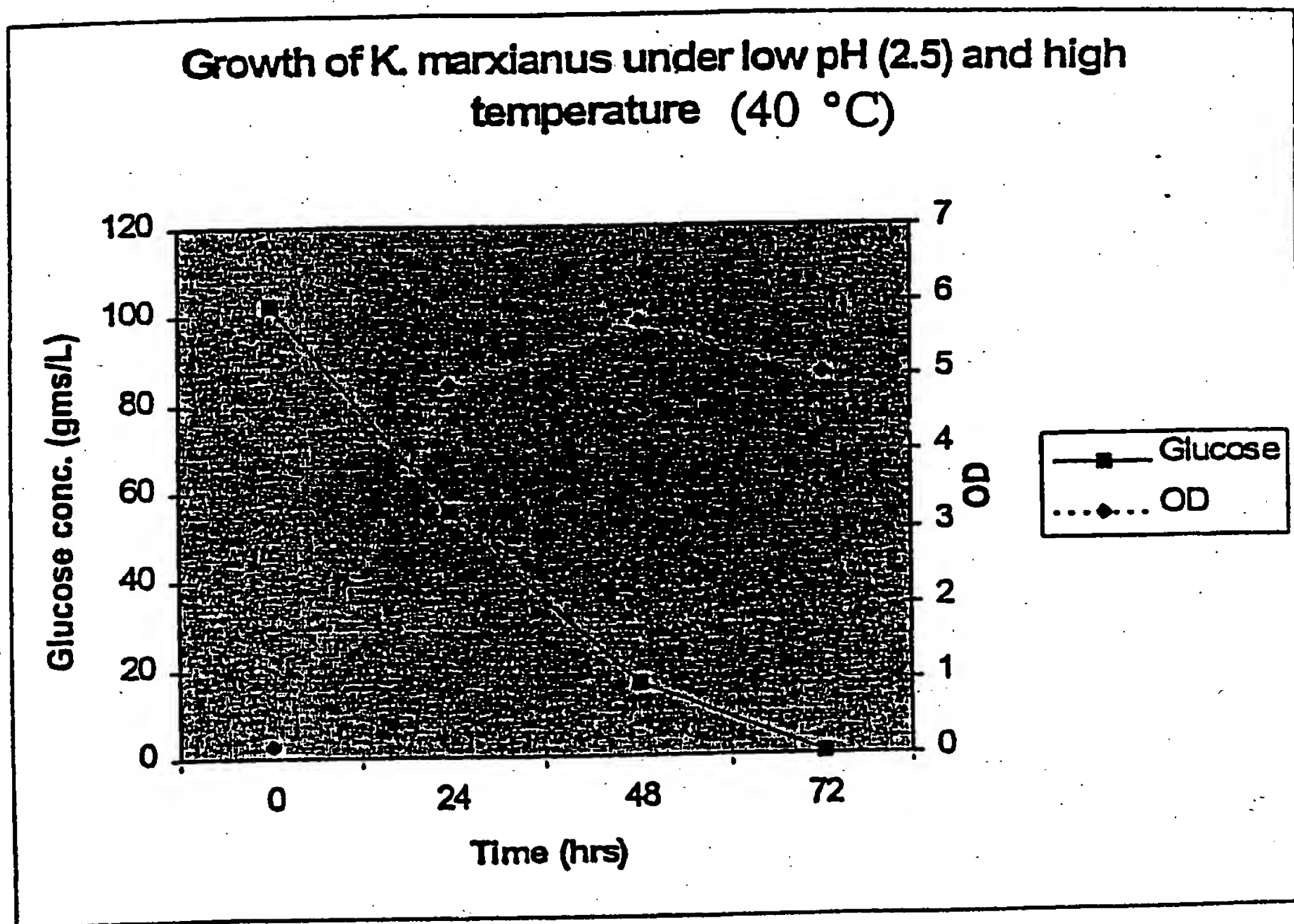




Figure 8.

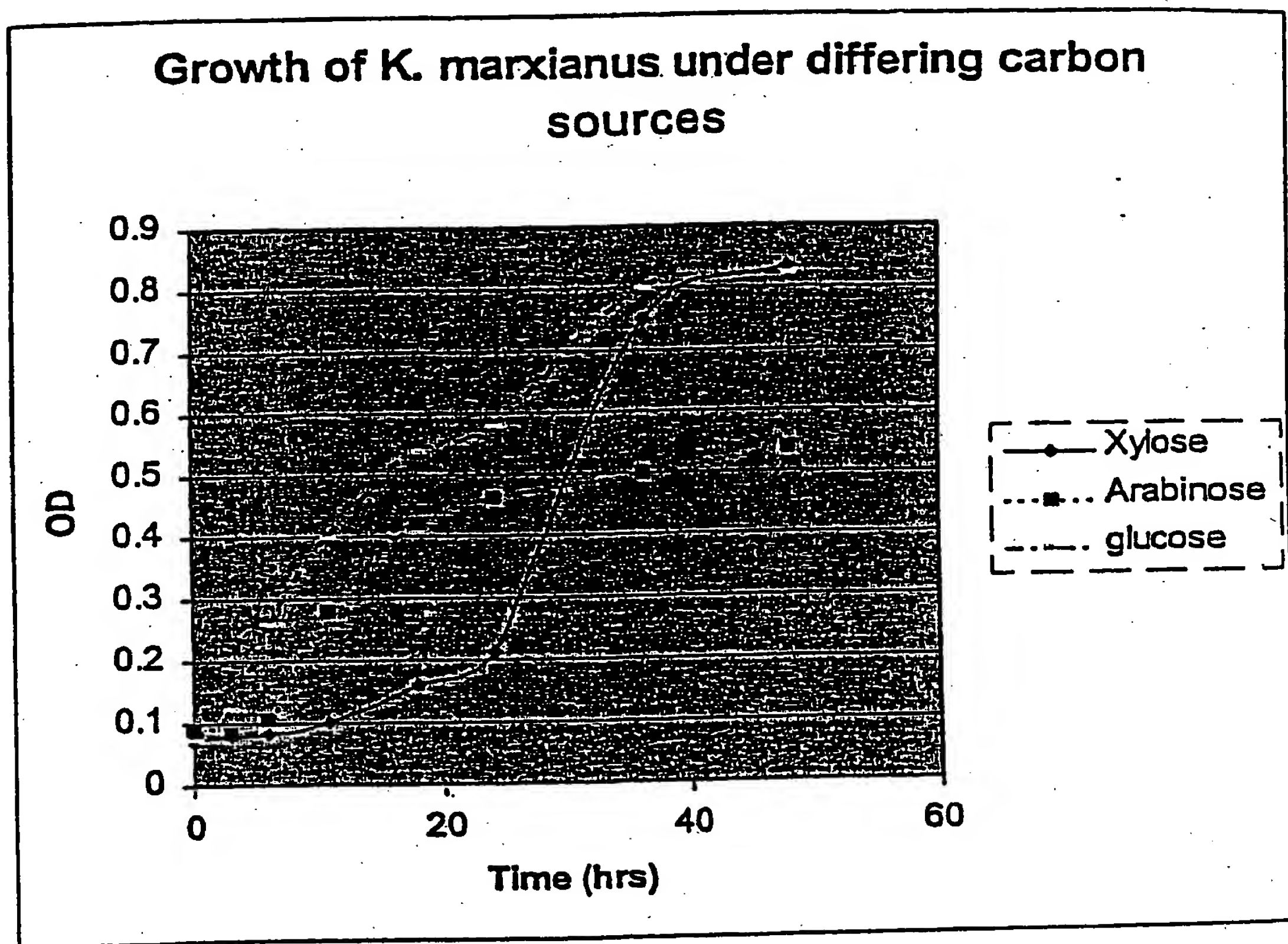
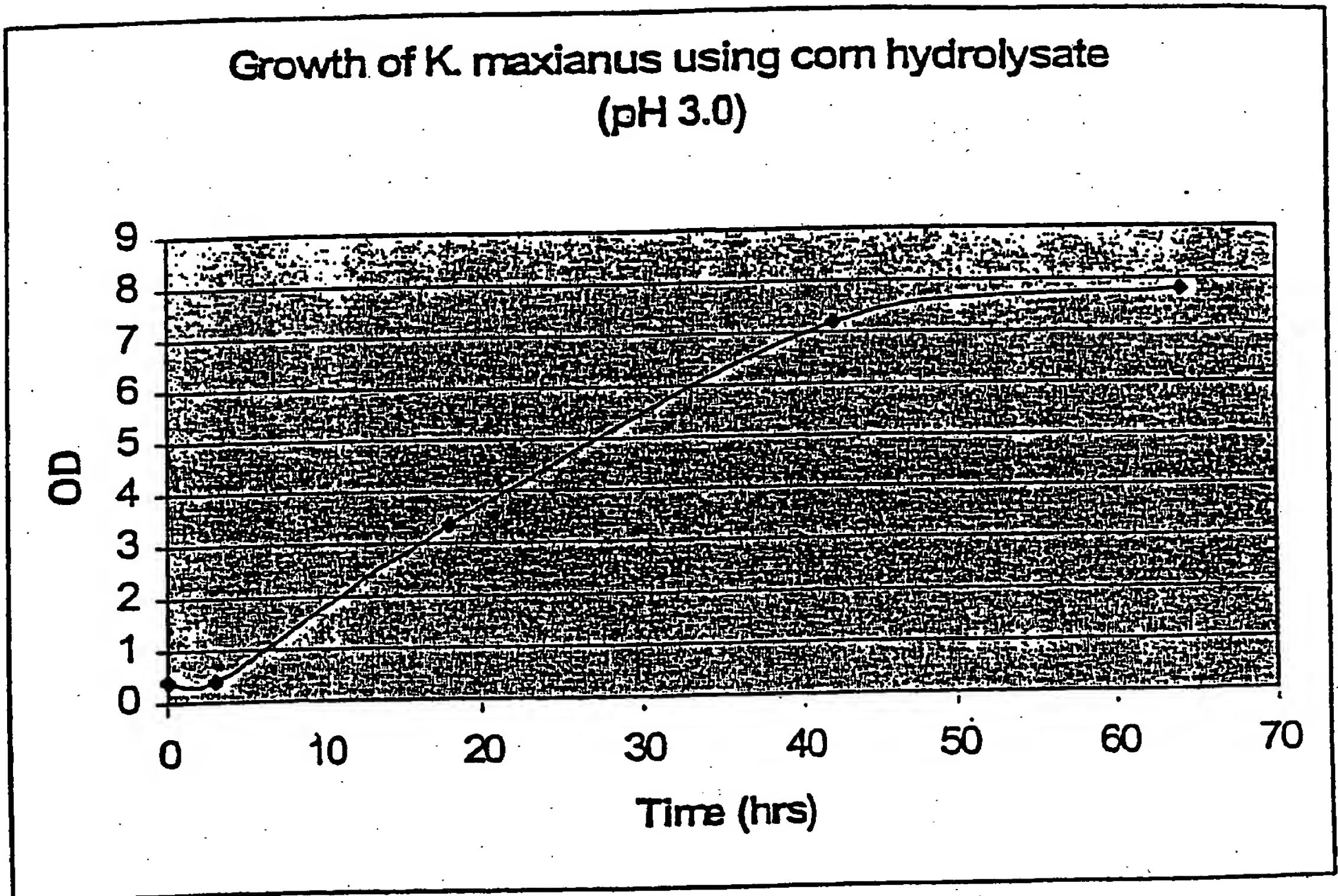




Figure 9.





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Growth curve for *K. marxianus* (pH adjusted using HCL-inorganic acid)

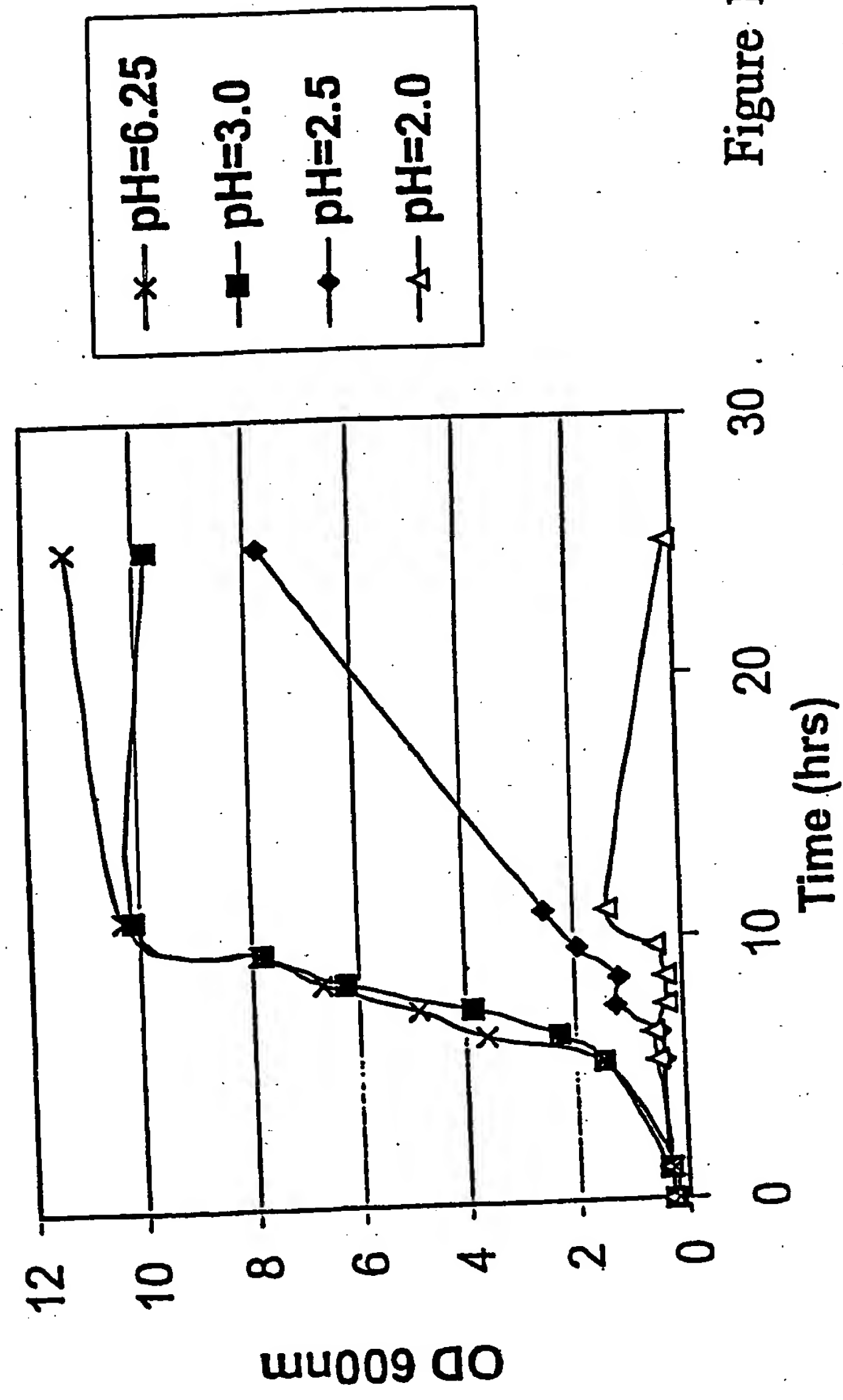


Figure 10.



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Growth curve for *K. marxianus* under low pH and 40gm/L lactic acid

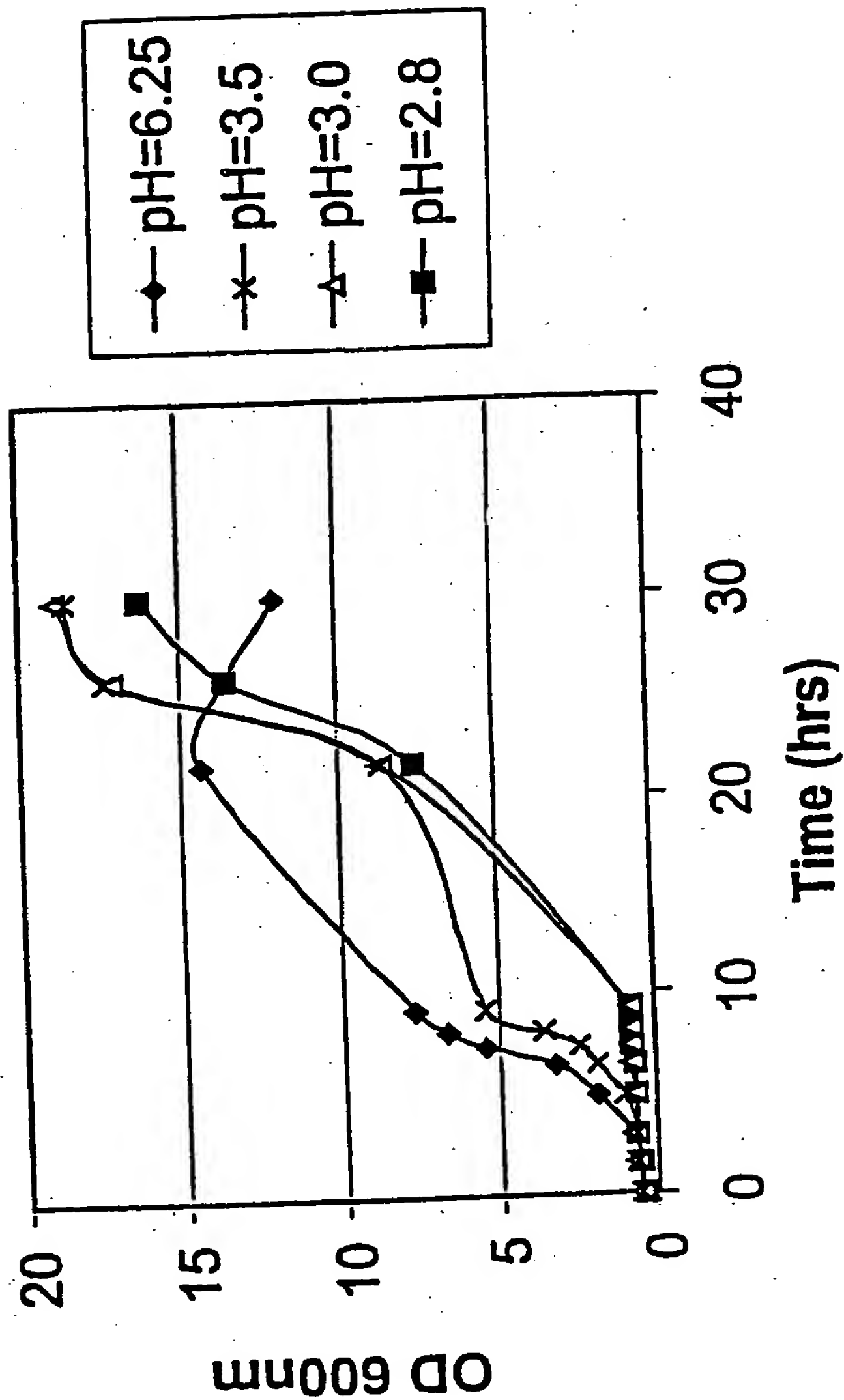
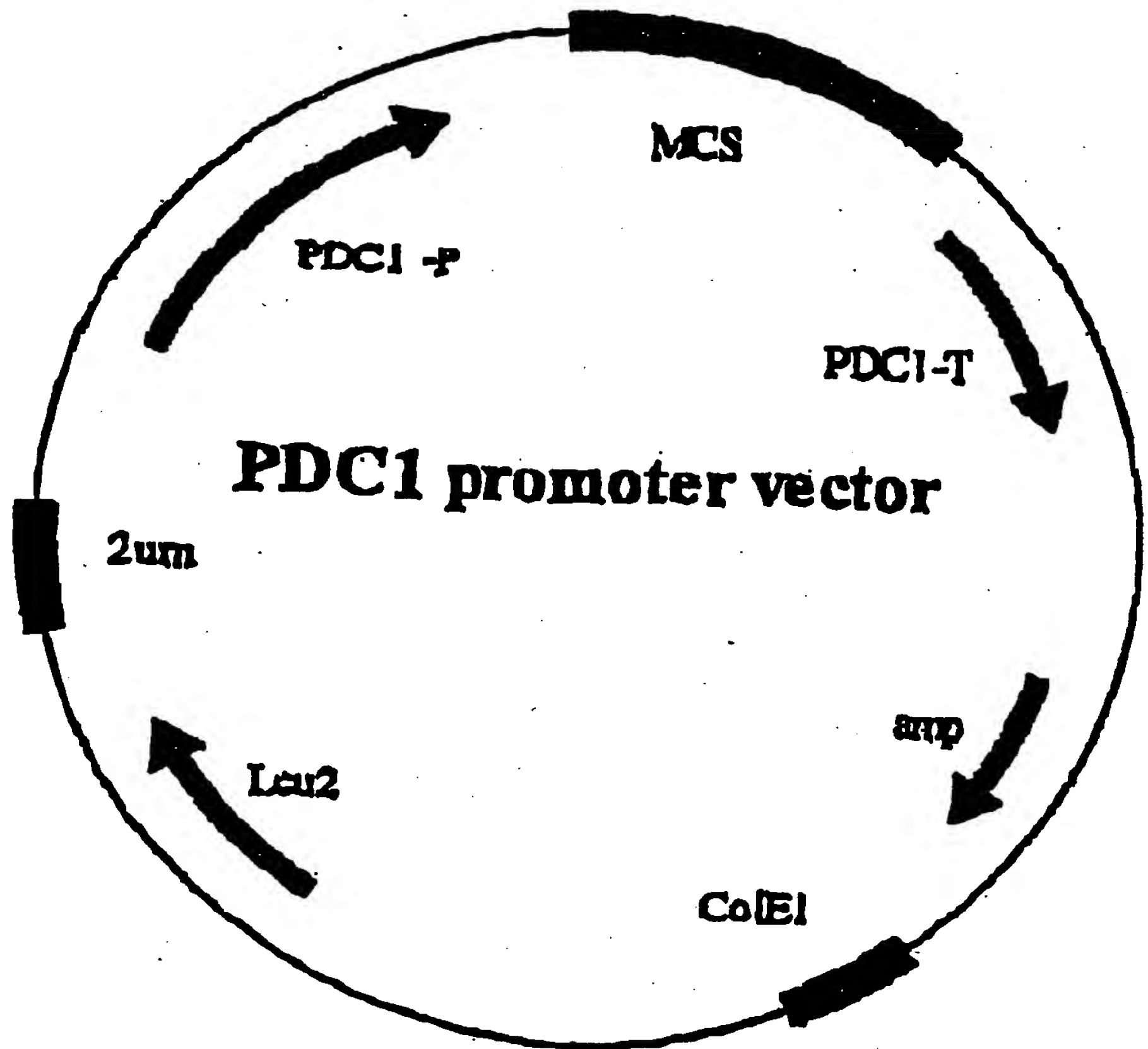


Figure 11.



Figure 14





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Figure 15

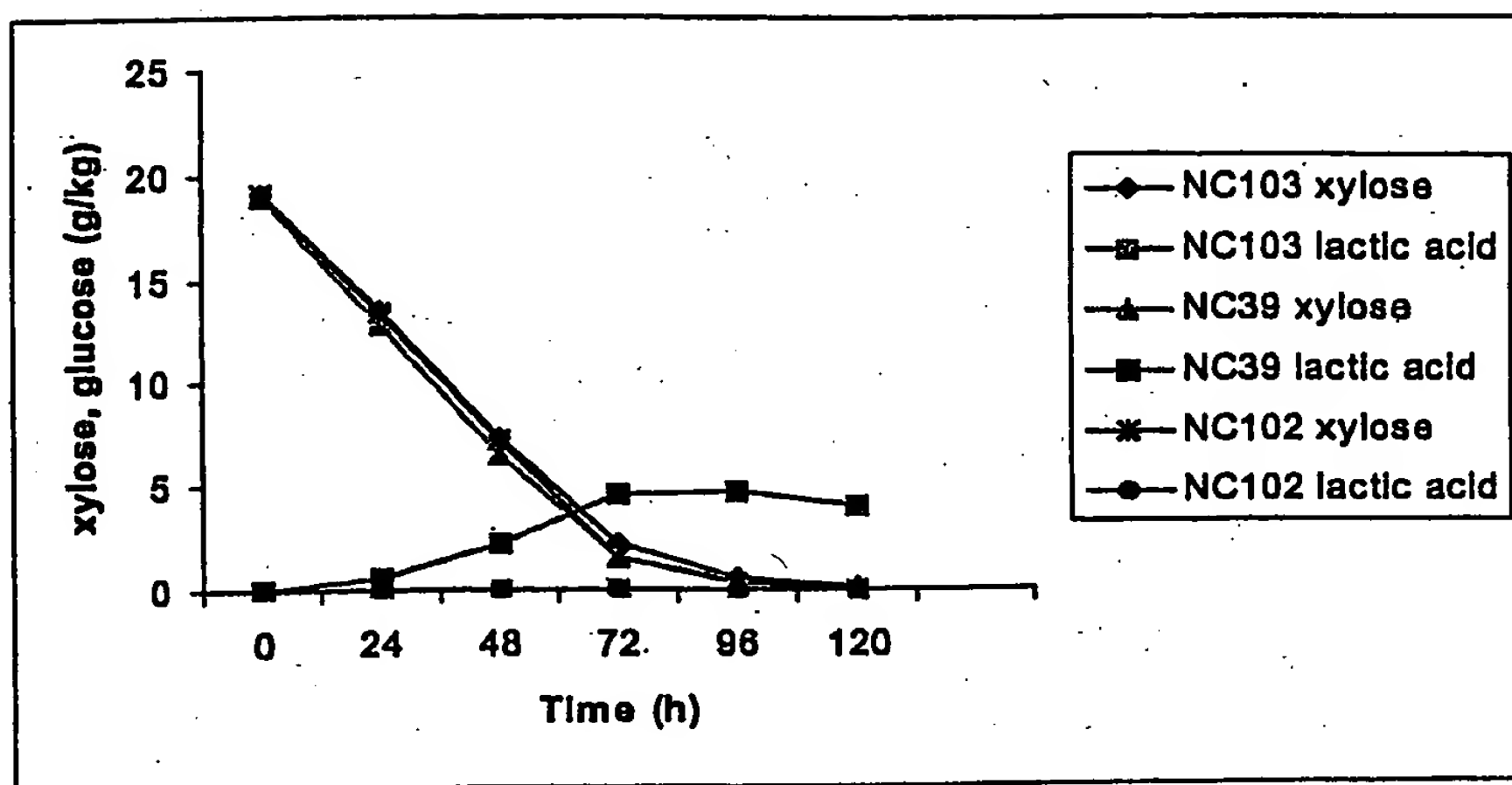




FIGURE 16 (1/11)

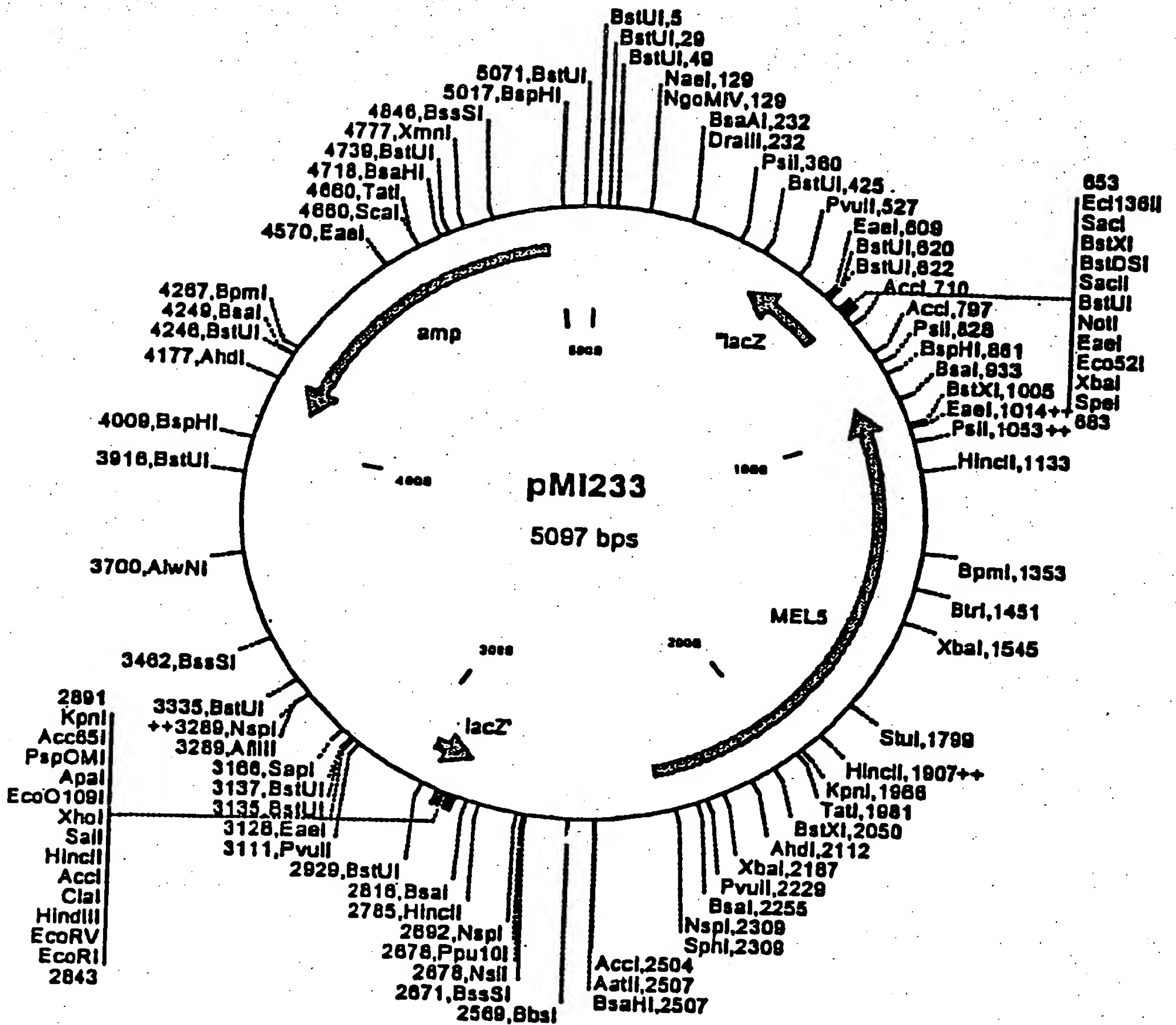
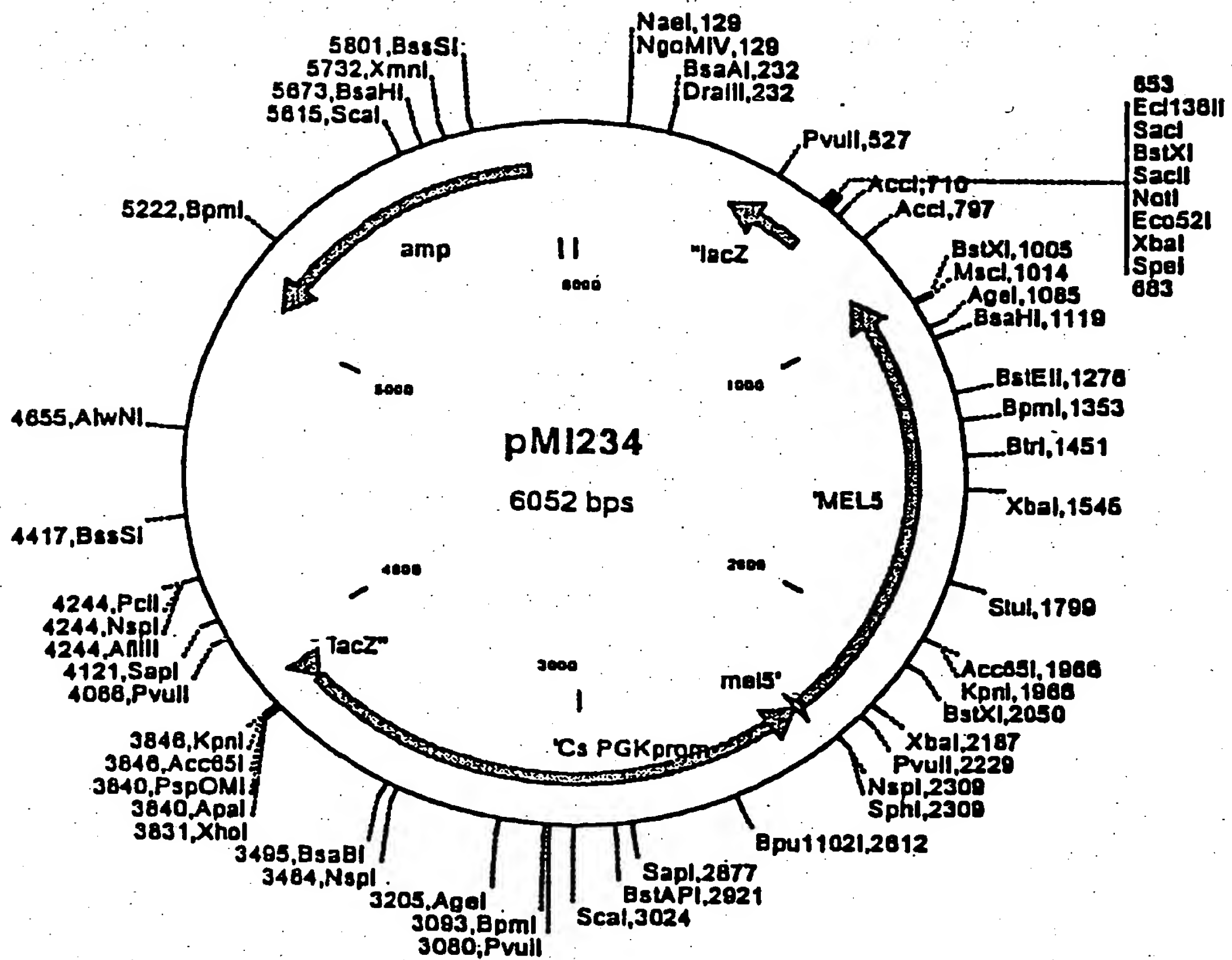




FIGURE 16 (2/11)



pMI238
5084 bps

The circular map shows various restriction enzyme sites around the plasmid. Key features include:

- amp^r**: Ampicillin resistance gene.
- lacZ**: Lac operon, used for blue-white screening.
- MEL5**: Multiple cloning site (MCS).
- Cs TDI form**: Cloning site for terminal deoxynucleotidyl transferase (TdT) mediated recombination.

Restriction enzymes and their positions (in base pairs) are listed below:

Enzyme	Position (bp)
BstUI, 5	~100
BstUI, 29	~100
BstUI, 49	~100
NaeI, 128	~100
NgoMIV, 128	~100
BsaAI, 232	~100
DraIII, 232	~100
PsiI, 360	~100
BstUI, 425	~100
SapI, 440	~100
PvuII, 527	~100
EaeI, 609	~100
BstUI, 620++	~100
Acl, 710	~100
AccI, 797	~100
PsiI, 828	~100
BspHI, 861++	~100
BsmAI, 934++	~100
EaeI, 1014++	~100
PsiI, 1053++	~100
HincII, 1133	~100
BpmI, 1353	~100
BstI, 1451	~100
XbaI, 1545	~100
SapI, 1613	~100
StuI, 1799	~100
HincII, 1907++	~100
TatI, 1981	~100
BstXI, 2050++	~100
XbaI, 2187++	~100
NspI, 2309	~100
SphI, 2309	~100
PsiI, 2378	~100
PacI, 2389	~100
PacI, 2414	~100
SwaI, 2439	~100
DraI, 2440	~100
SapI, 2444	~100
MunI, 2498	~100
2556, SseI	~100
2601, BsmAI	~100
2613, BsmAI	~100
2646, BbsI	~100
2684, BslWI	~100
2732, BarGI	~100
2732, TatI	~100
2751, BsaAI	~100
2793, DraI	~100
2916, BstUI	~100
3098, PvuII	~100
++3115, EaeI	~100
++3124, BstUI	~100
3276, ARIII	~100
++3276, NspI	~100
3322, BstUI	~100
3449, BssSI	~100
3687, A/NNI	~100
3903, BstUI	~100
3996, BspHI	~100
4033, DraI	~100
4052, DraI	~100
4184, AhdI	~100
4233, BstUI	~100
4236, BsaI	~100
4236, BsmAI	~100
4254, BpmI	~100
4557, EaeI	~100
4647, Scal	~100
4647, Tatl	~100
4705, BsaHI	~100
4726, BstUI	~100
4744, DraI	~100
4764, XmnI	~100
4833, BssSI	~100
4971, SapI	~100
5001, BsmAI	~100
5004, BspHI	~100
5058, BstUI	~100

[illegible]

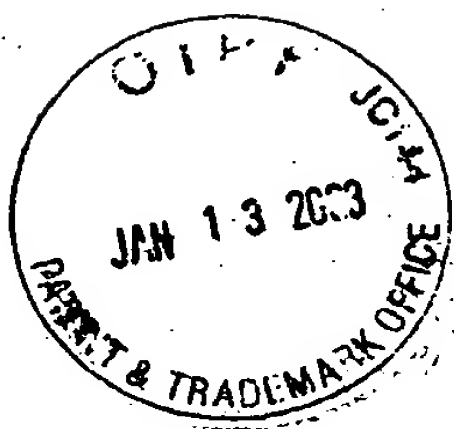


FIGURE 16 (5/11)

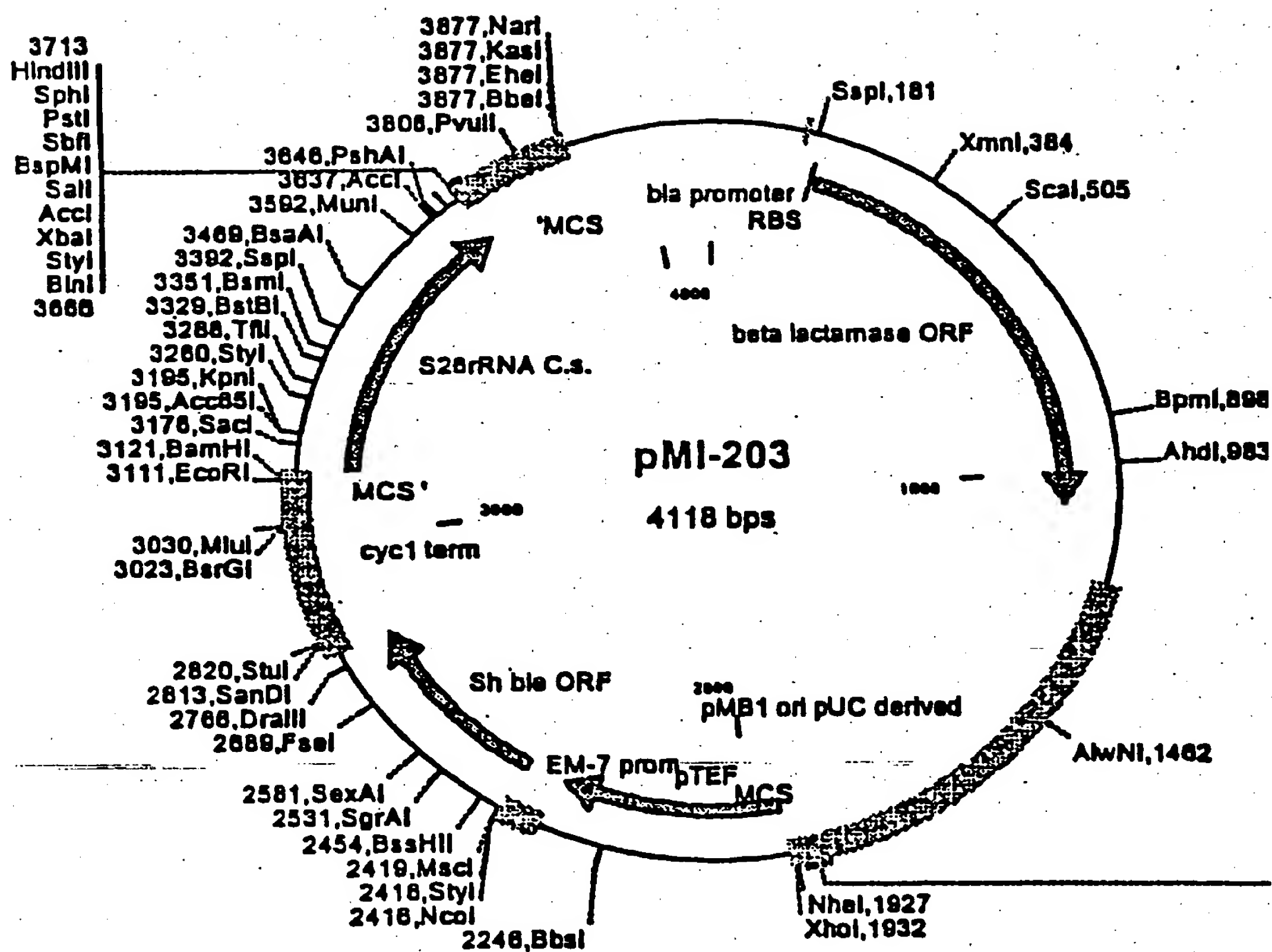
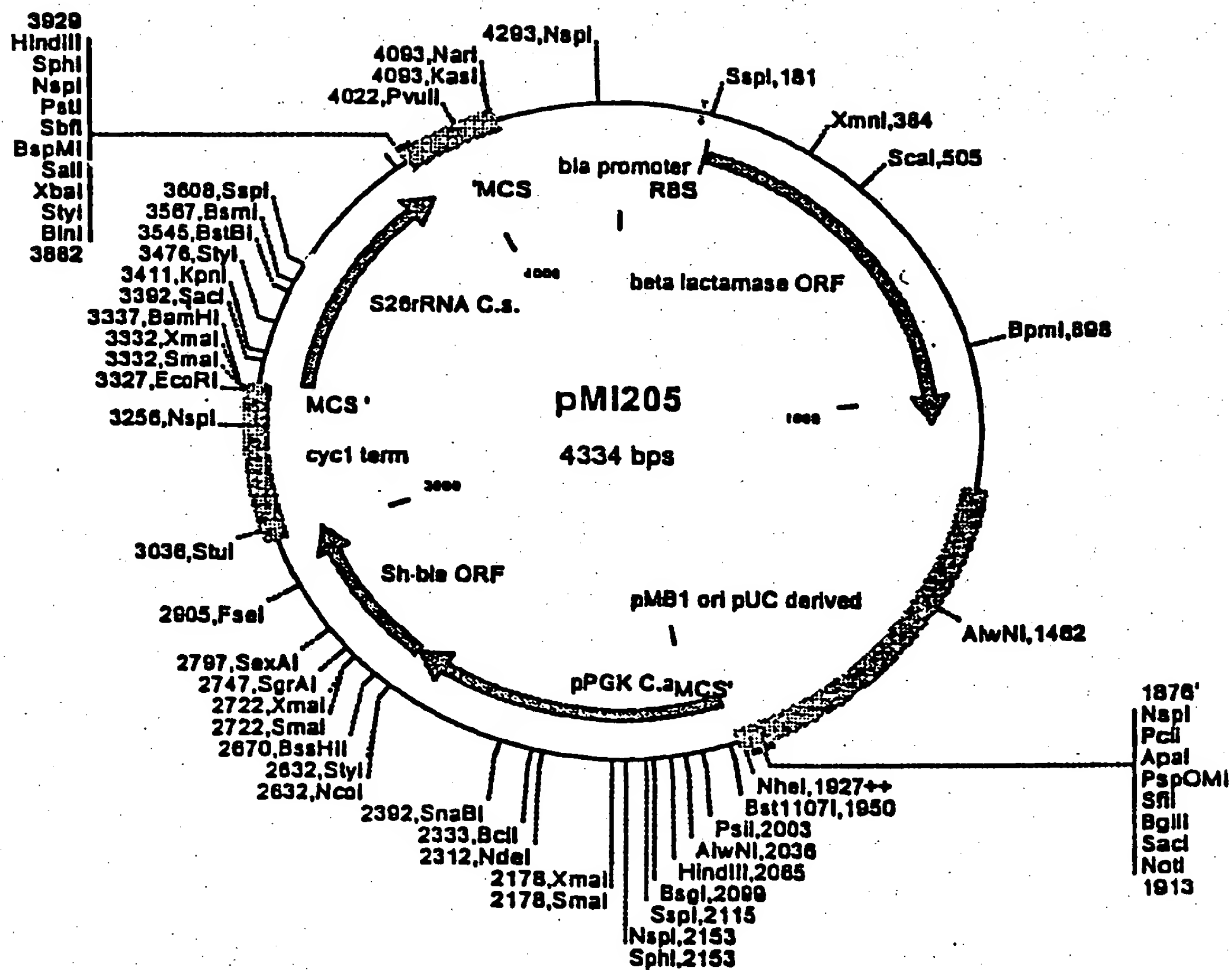




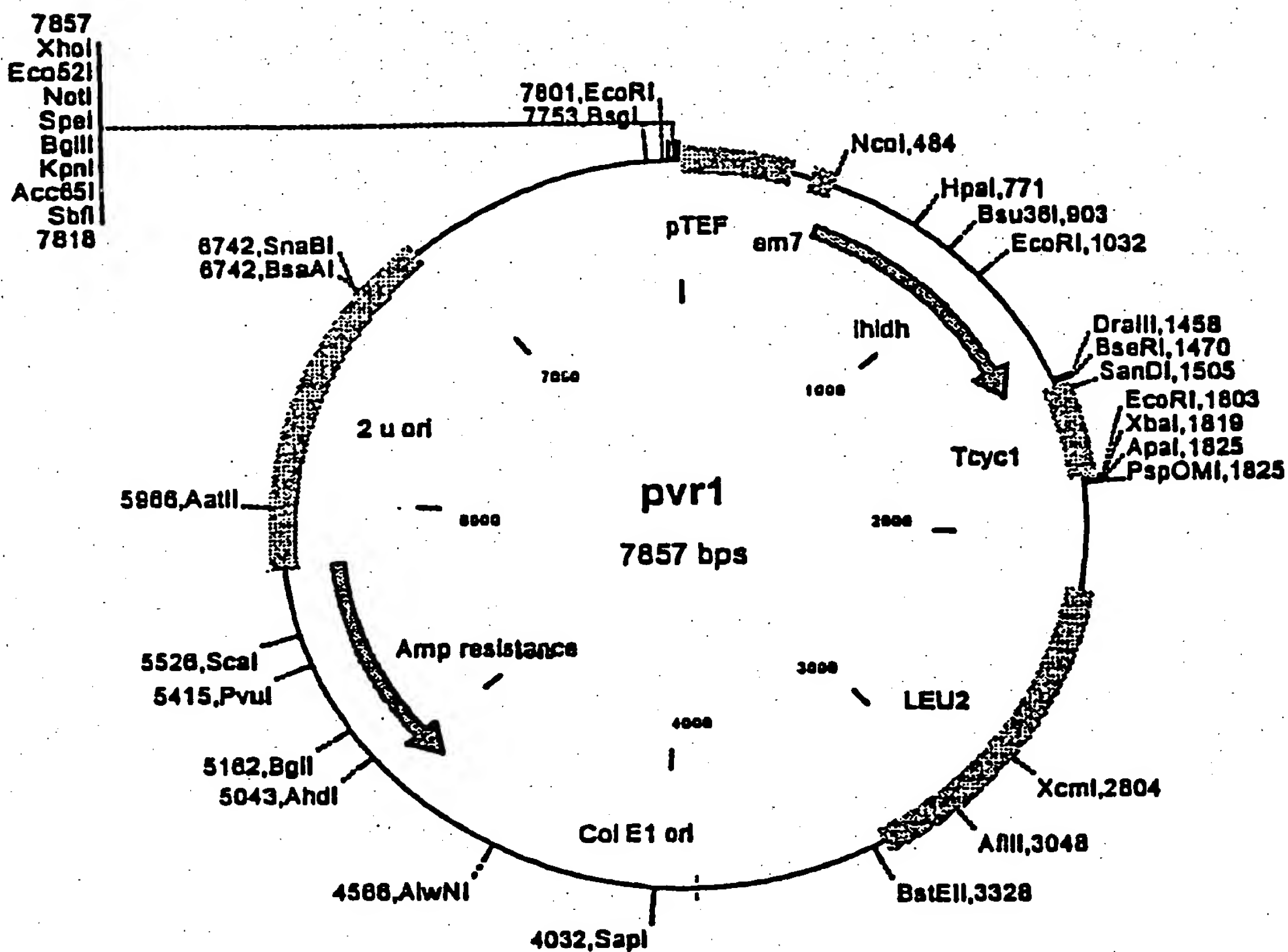
FIGURE 16 (6/11)





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FIGURE 16 (7/11)





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FIGURE 16 (8/11)

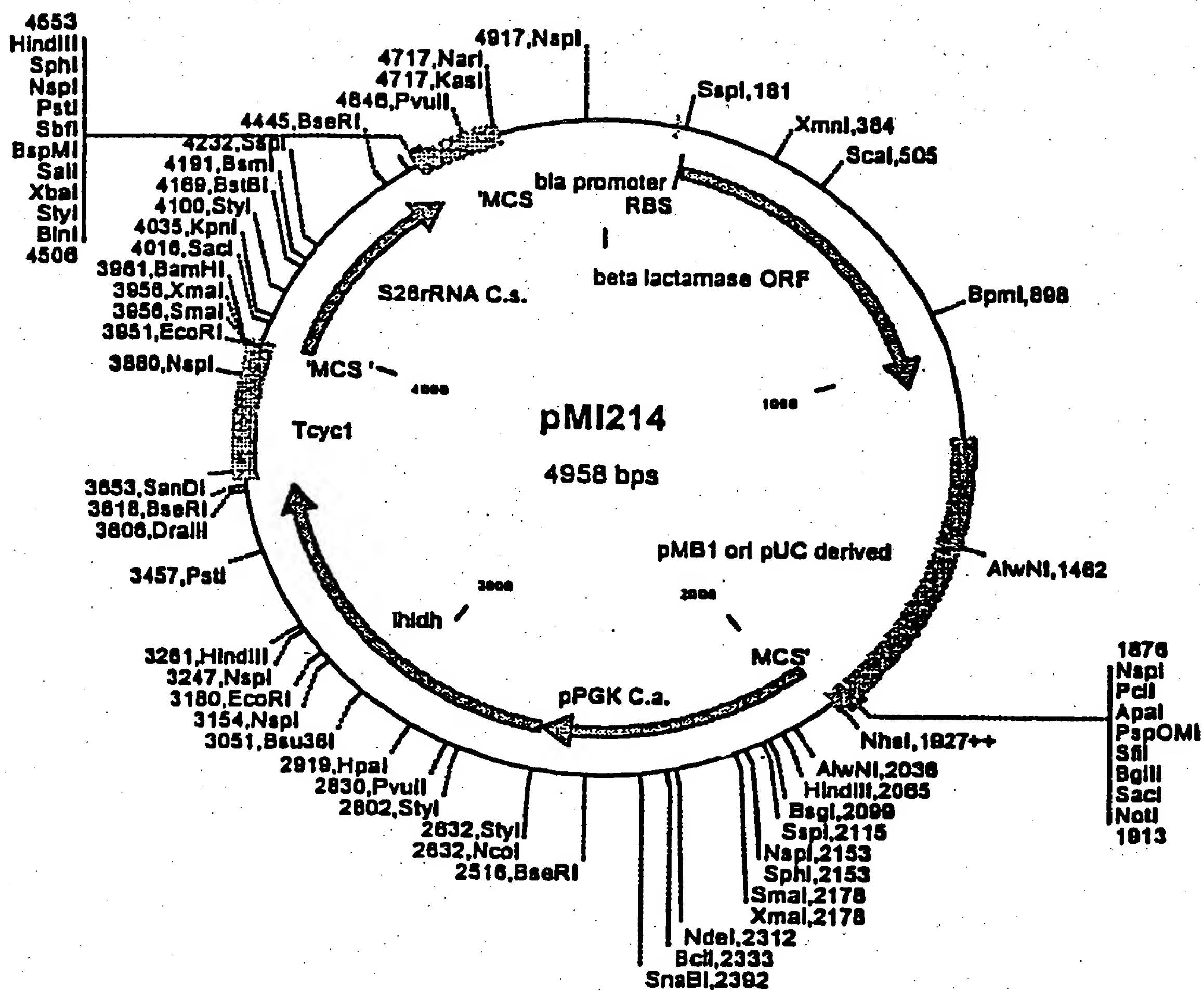




FIGURE 16 (9/11)

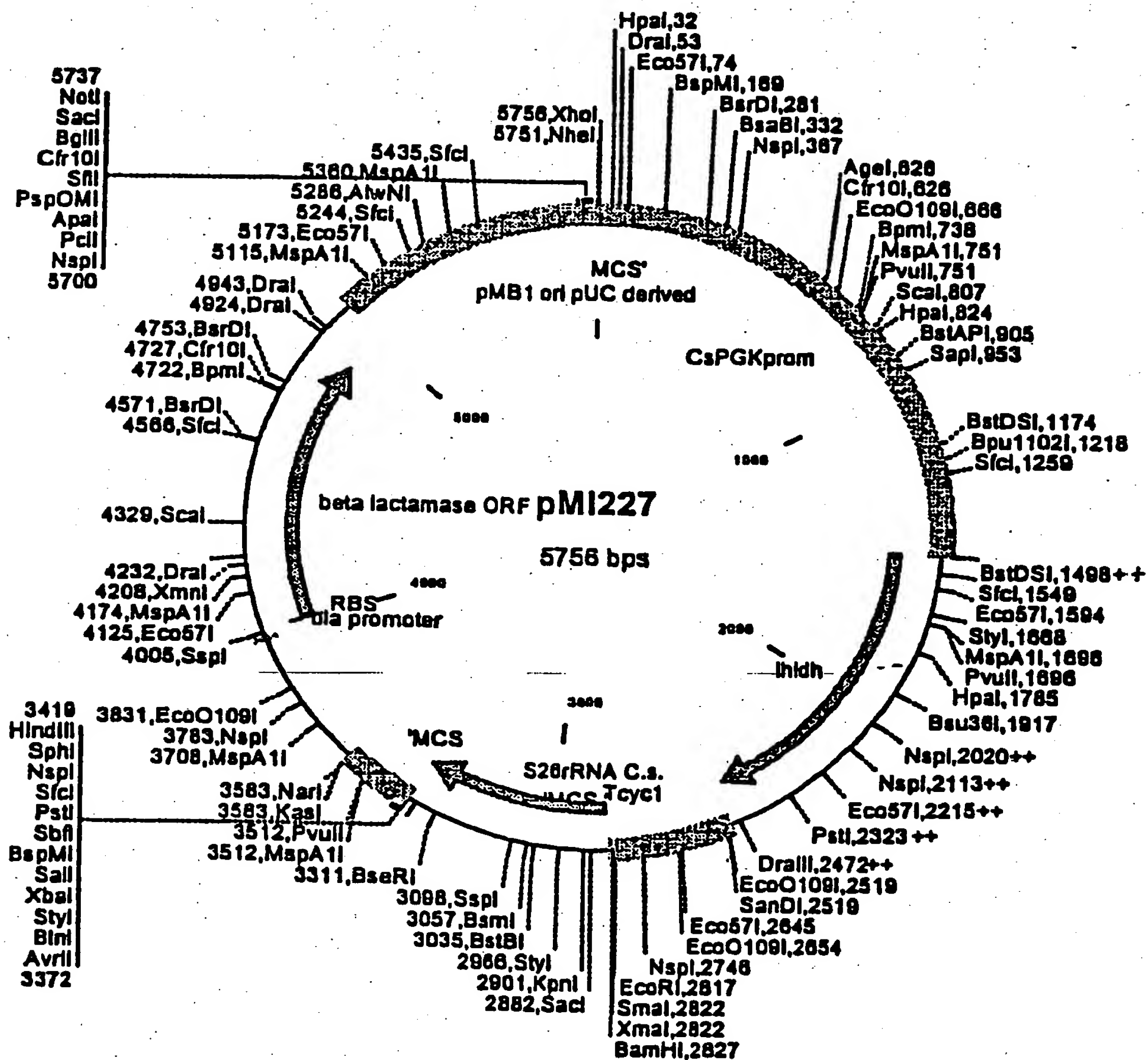
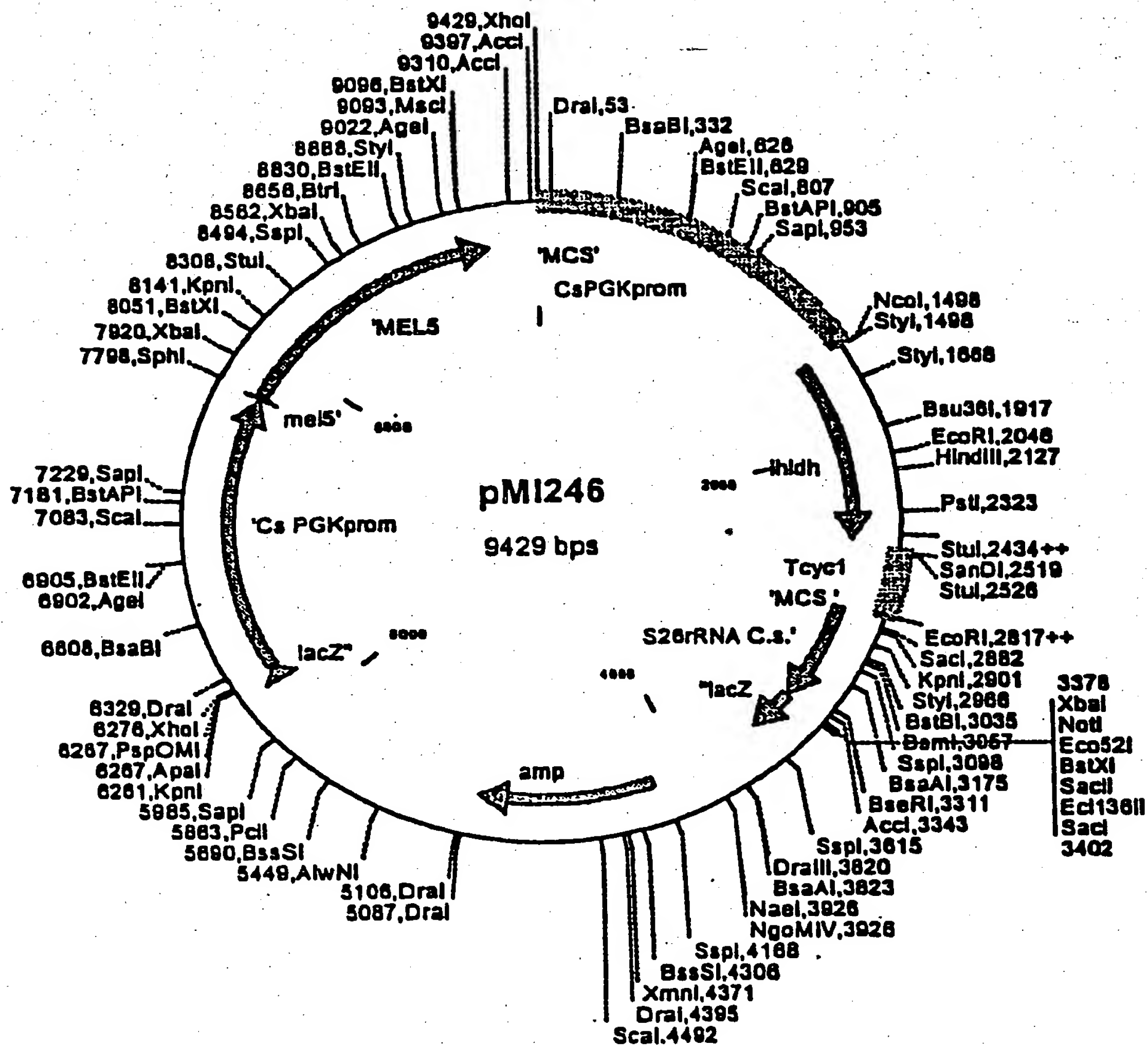




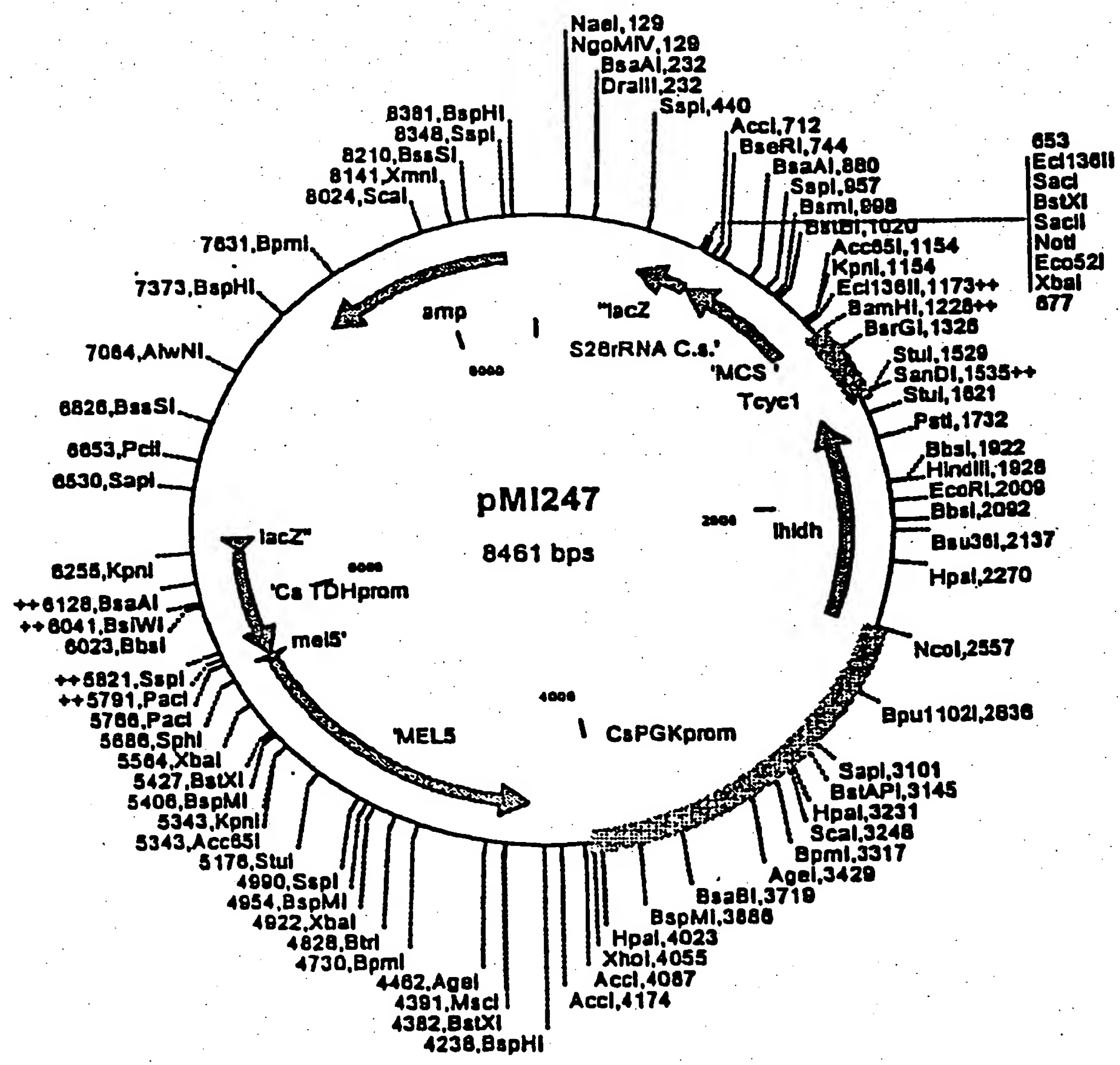
FIGURE 16 (10/11)





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FIGURE 16 (11/11)





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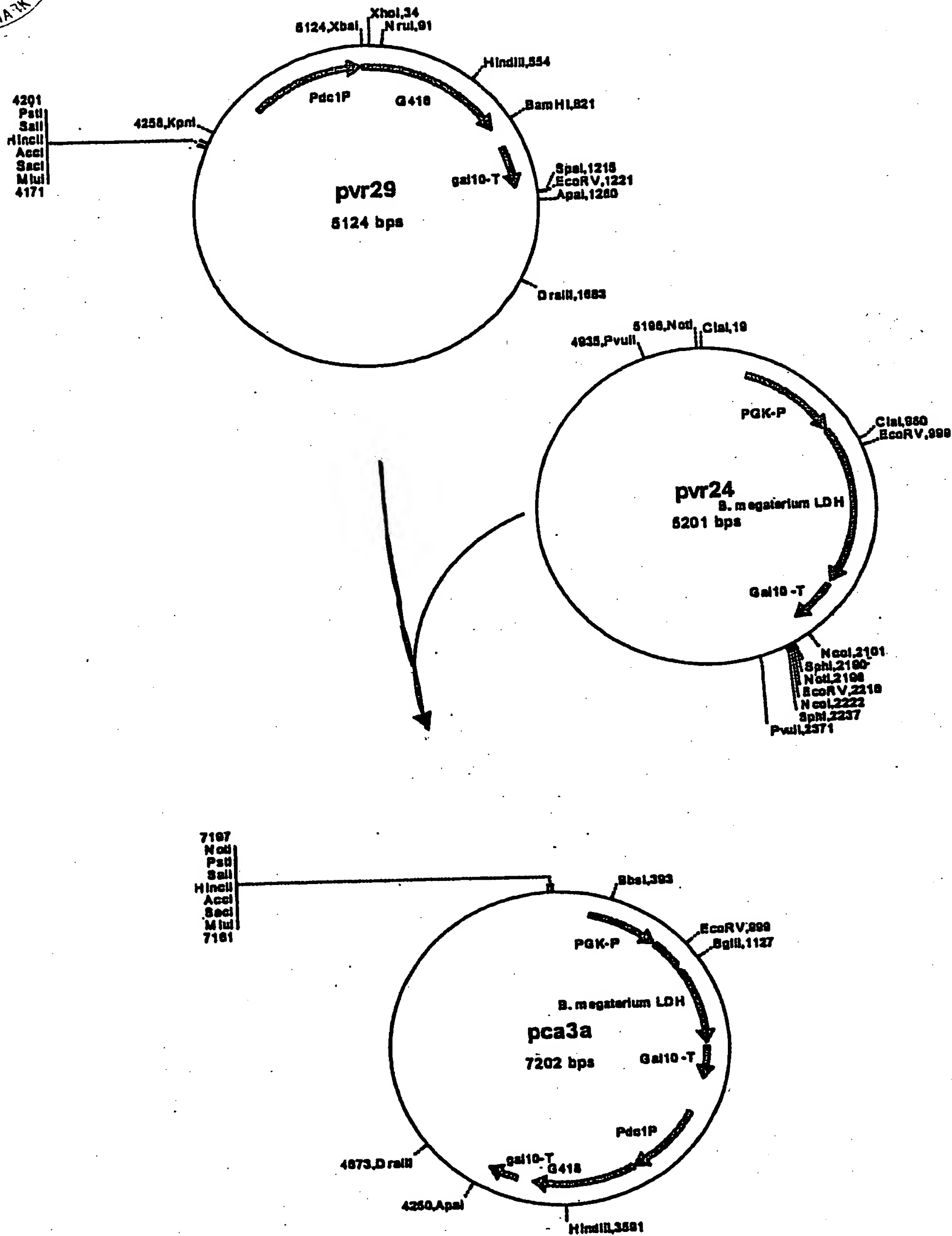
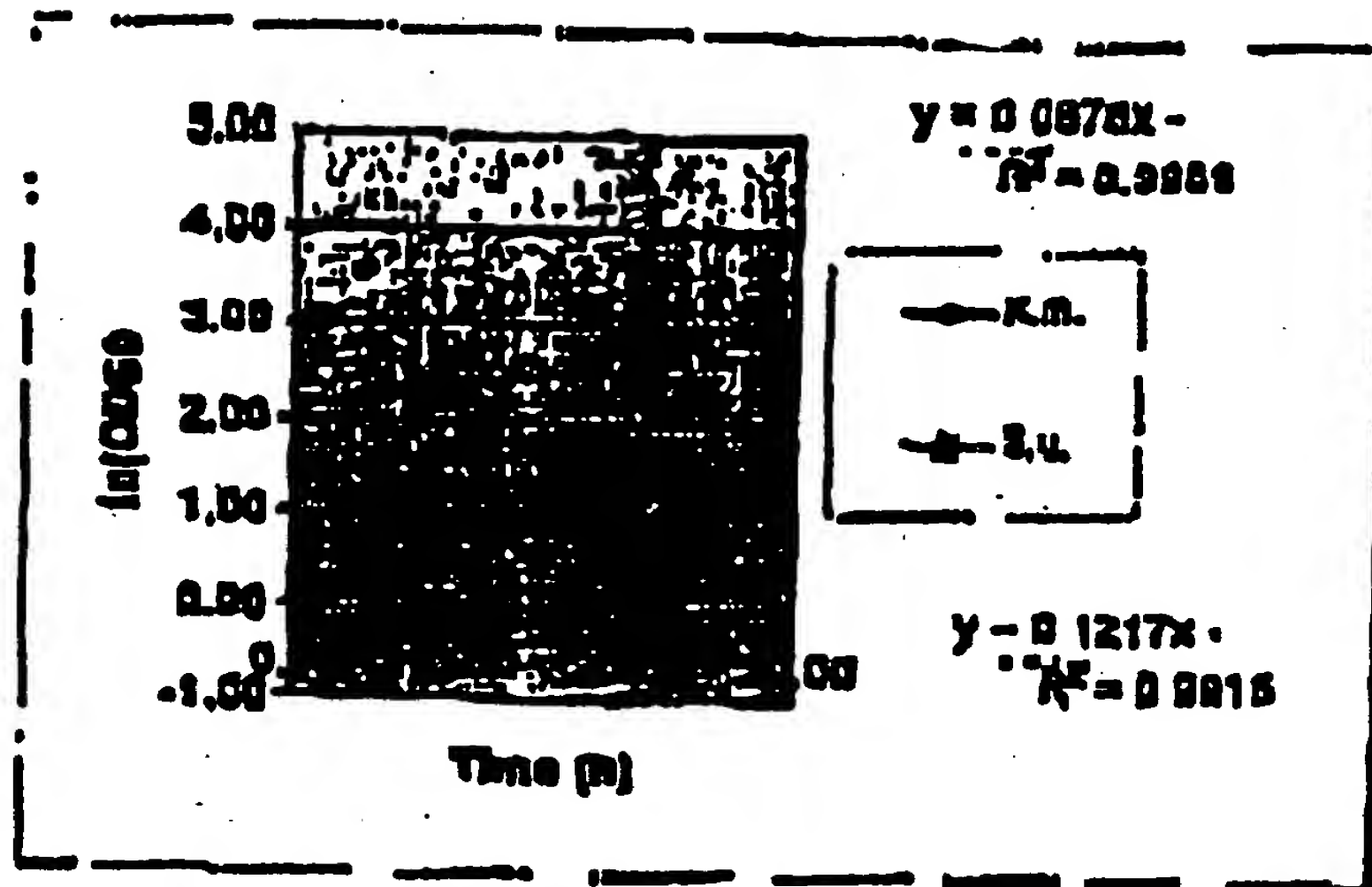


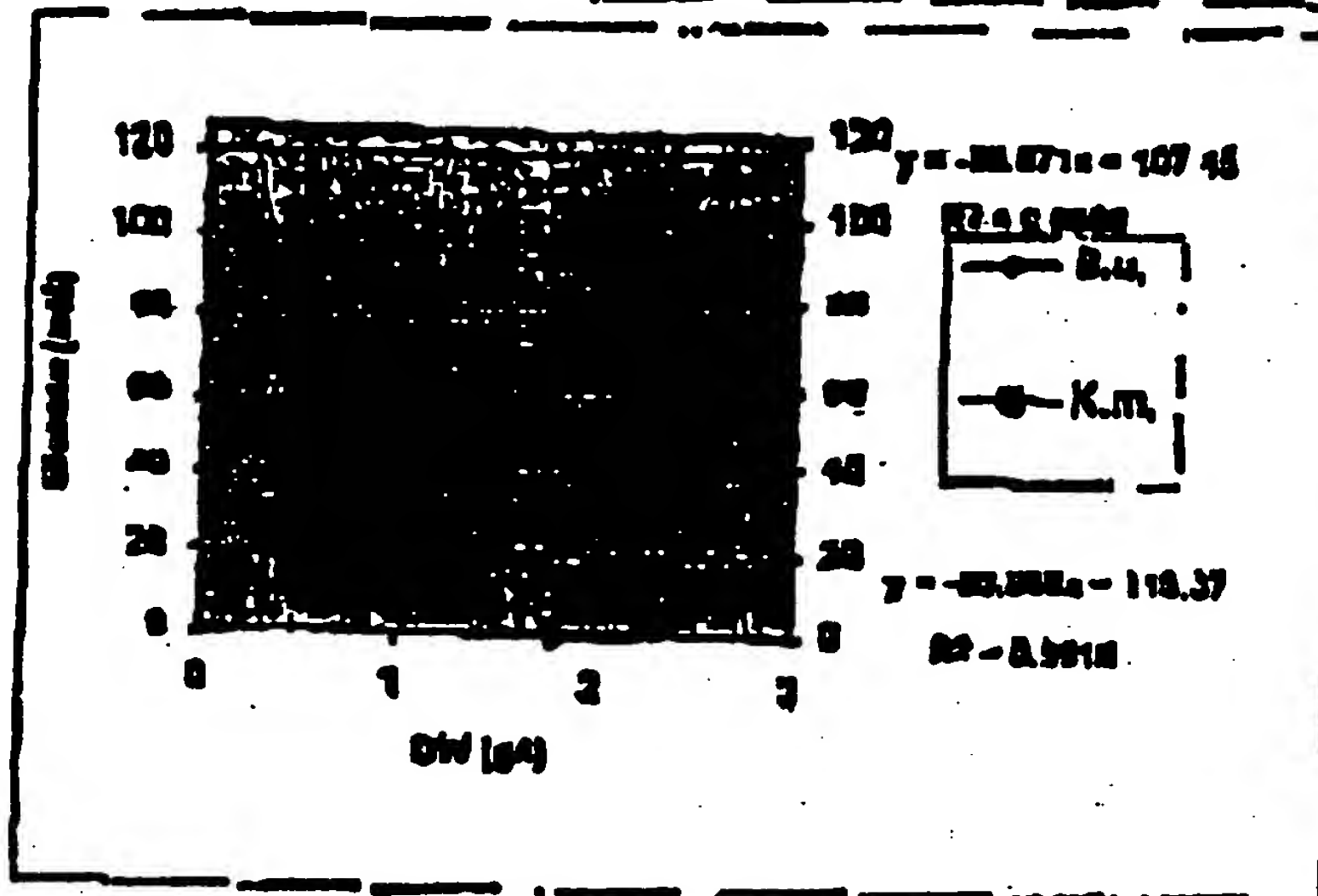
FIGURE 17



A



B



C

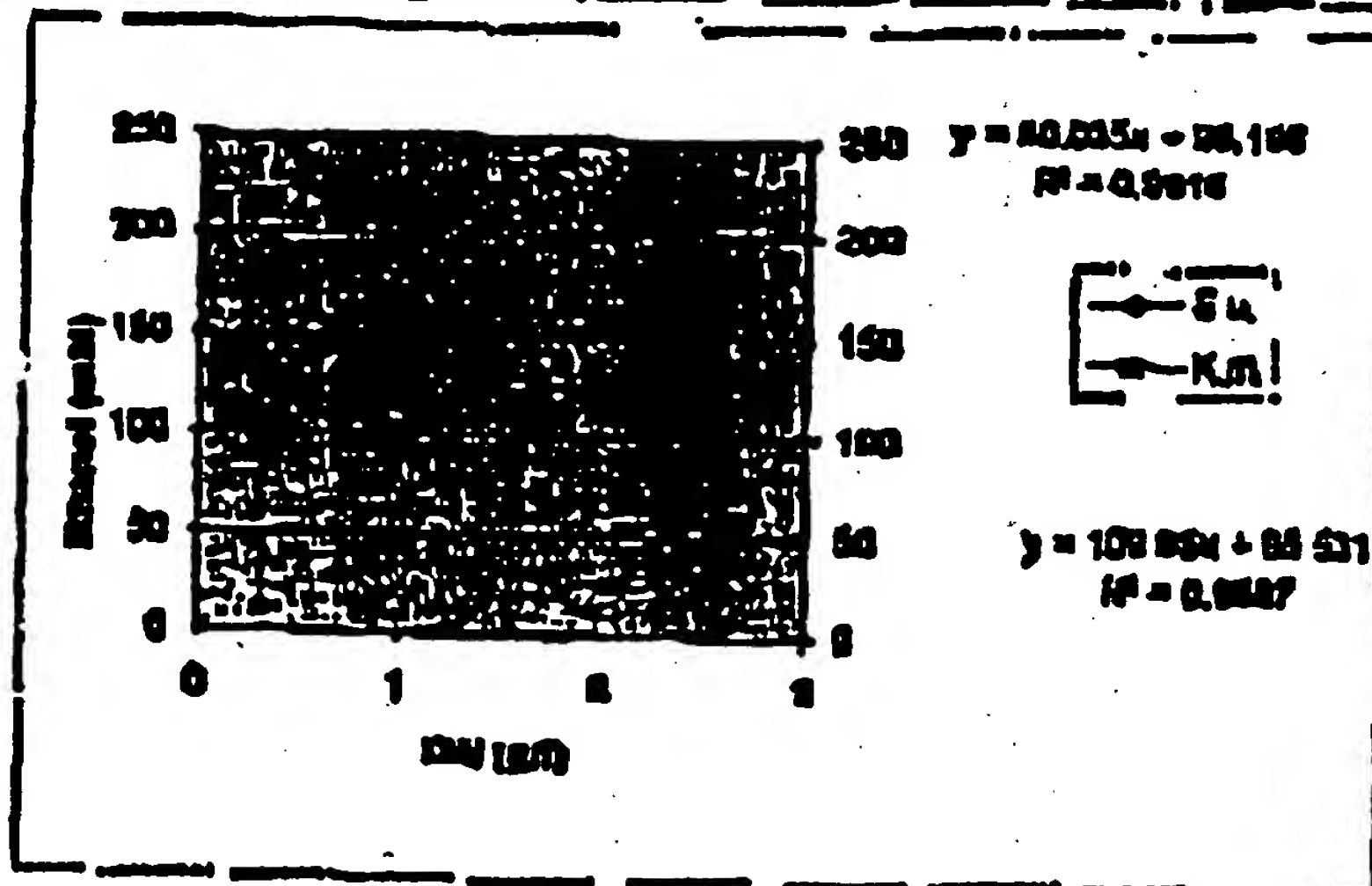
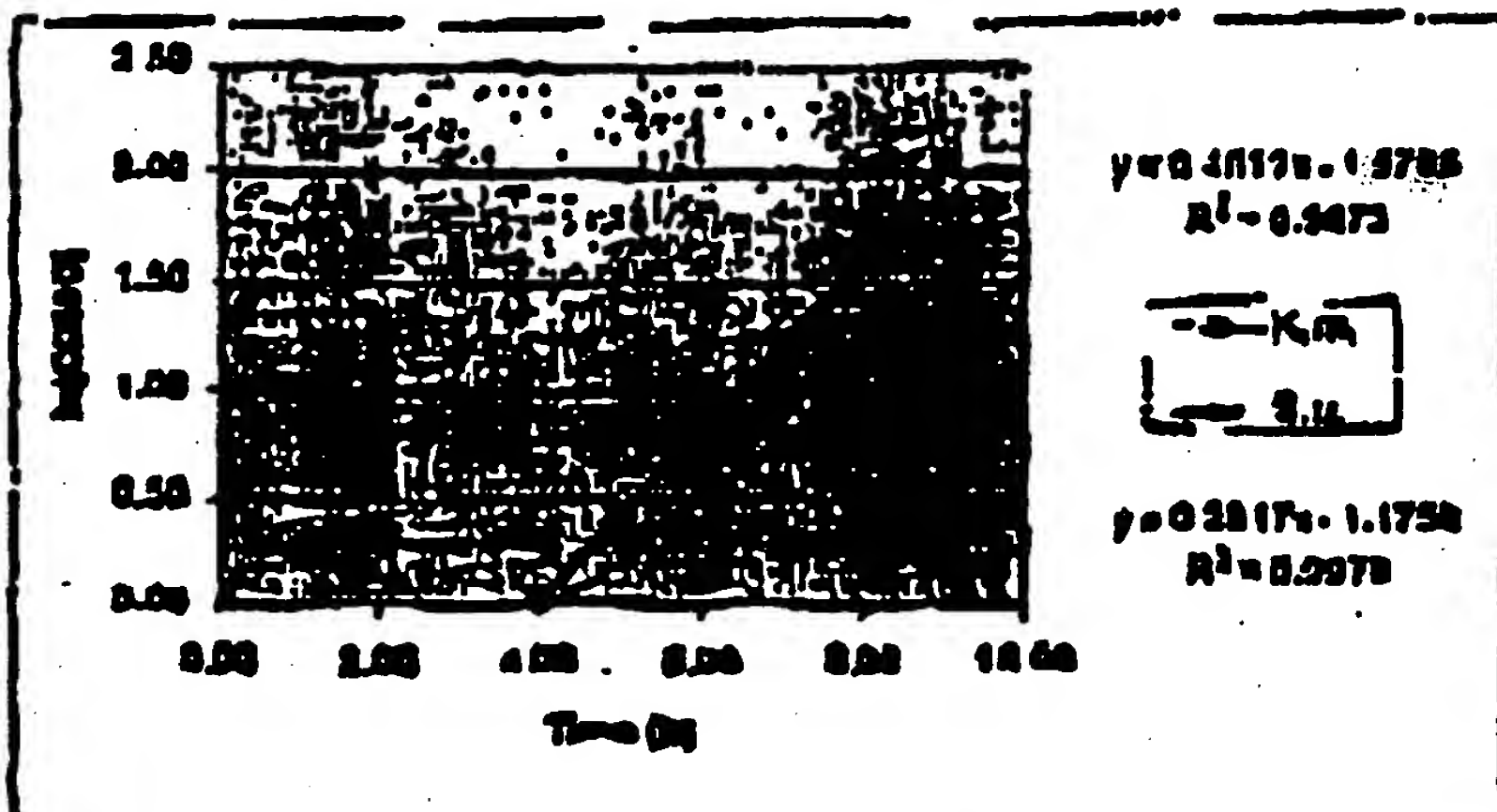


FIGURE 13

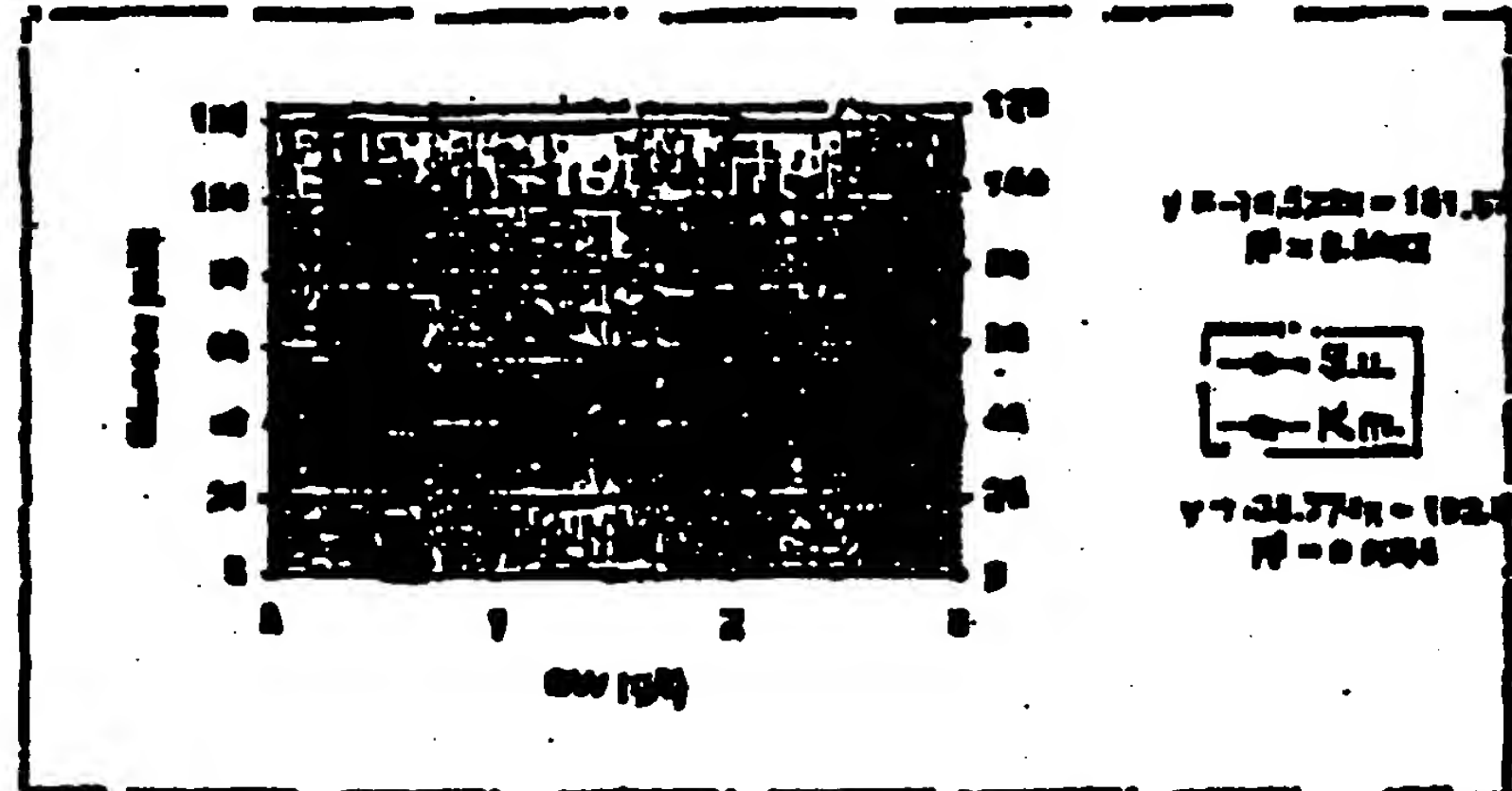


09992430 011303

A



B



C

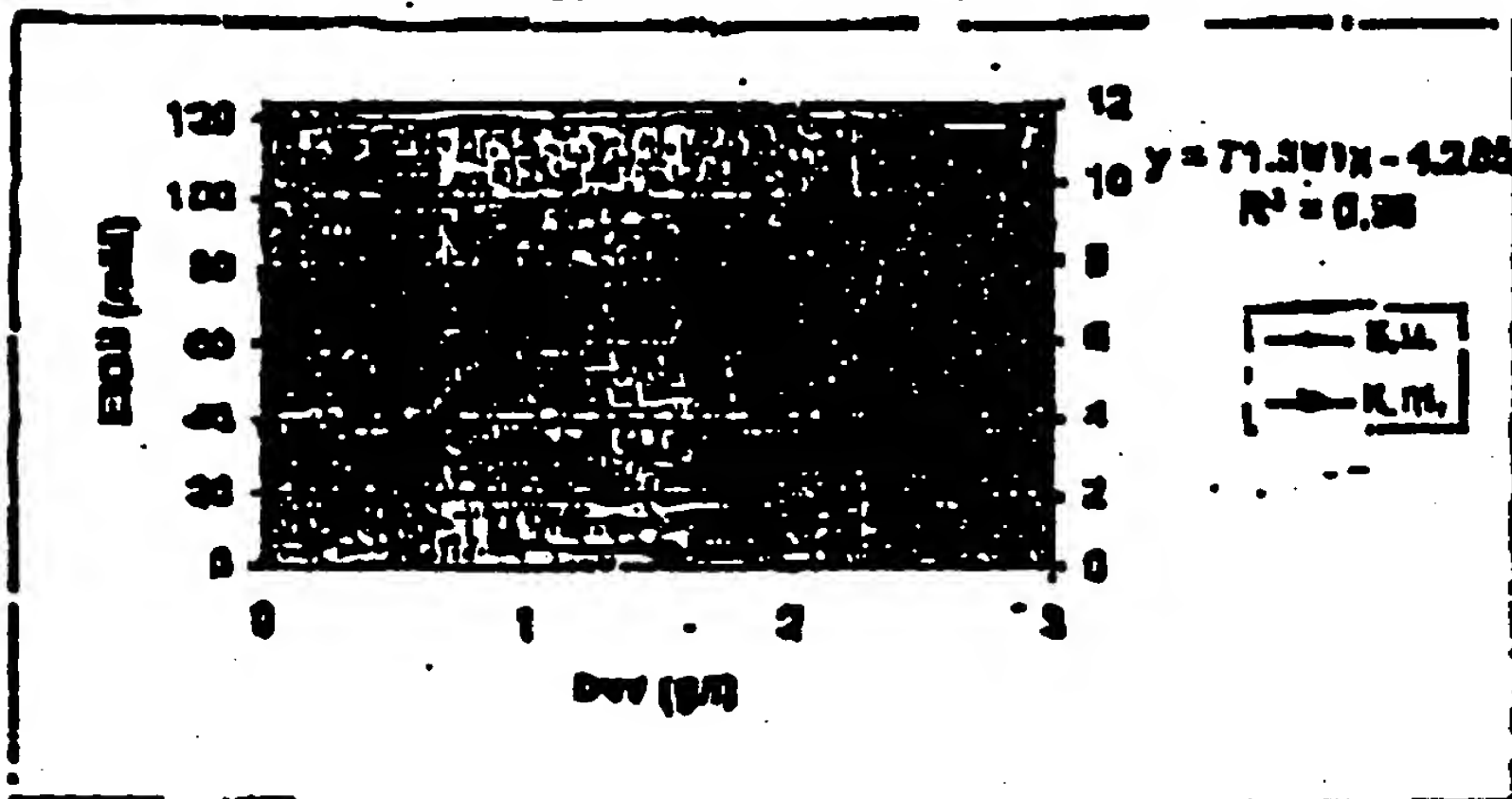


Figure 12

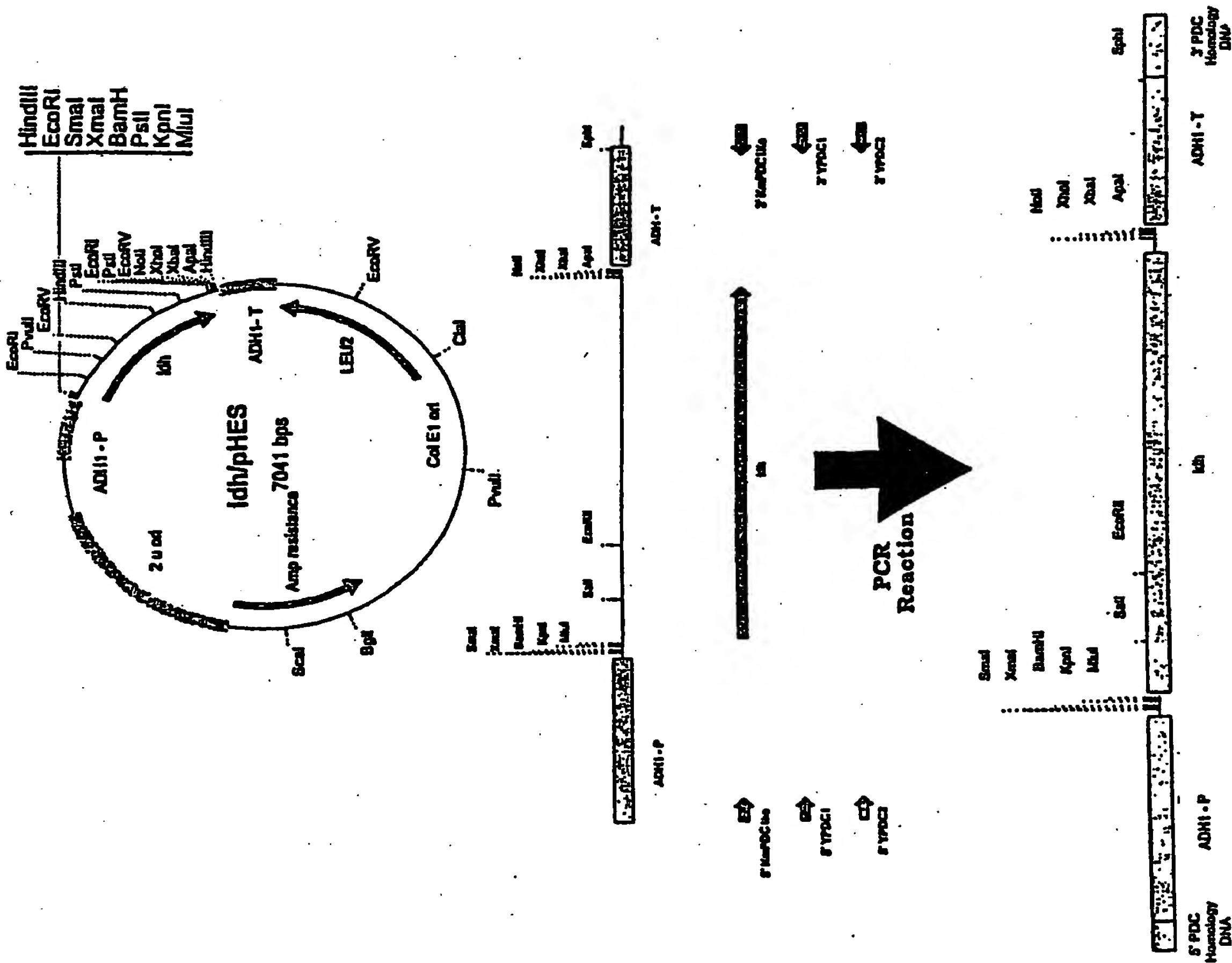


Figure 6A.